Acer Projector

F7200 / LV-X01 / Y510

F7500 / LV-801 / Y550

F7600 / LV-WU01 / Y560

Series User's Guide

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Important Safety Information

> ***Important:***
> *It is strongly recommended that you read this section carefully before using the projector. These safety and usage instructions will ensure that you enjoy many years of safe use of the projector.* ***Keep this manual for future reference.***

Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations.

The following styles are used in this manual to alert you to important information.

> ***Note:***
> *Provides additional information on the topic at hand.*

> ***Important:***
> *Provides additional information that should not be overlooked.*

> ***Caution:***
> *Alerts you to situations that may damage the unit.*

> ***Warning:***
> *Alerts you to situations that may damage the unit, create a hazardous environment, or cause personal injury.*

Throughout this manual, component parts and items in the OSD menus are denoted in bold font as in this example:
"Push the **Menu** button on the remote control to open the **Main** menu."

General Safety Information

- Do not open the unit case. Aside from the projection lamp, there are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- Follow all warnings and cautions in this manual and on the unit case.
- The projection lamp is extremely bright by design. To avoid damage to eyes, do not look into the lens when the lamp is on.
- Do not place the unit on an unstable surface, cart, or stand.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- Do not place heavy objects such as books or bags on the unit.

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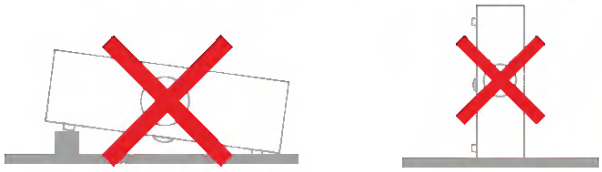
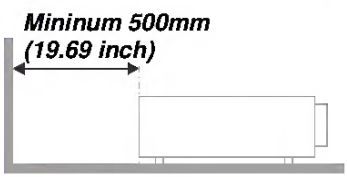
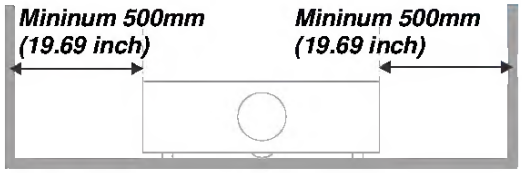
Projector Installation Notice

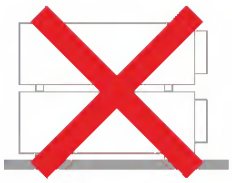
- Place the projector in a horizontal position
  Do not tilt the projector to the left or right, otherwise light source life could decrease dramatically, and may lead to other ***unpredictable damages***.

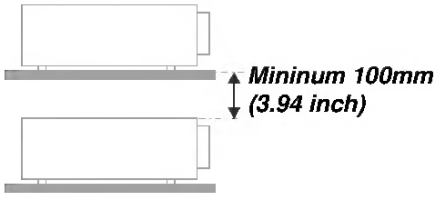


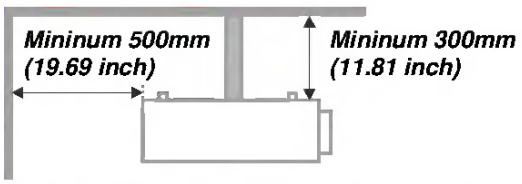
- Allow at least 50 cm clearance around the exhaust vent.











- Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable operation temperature range.

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Verify Installation Location

- To supply power, the 3-blade (with earthing lead) socket should be used to ensure proper grounding and equalized ground potential for all of the equipment in the Projector System.
- The power code provided with the Projector should be used. In case of any missing item, other qualified 3-blade (with earthing lead) power cord can be used as substitution; however, do not use 2-blade power cord.
- Verify if the voltage is stable, grounded properly and there is no electricity leakage.
- Measure total power consumption which should not higher the safety capacity and avoid safety issue and short circuit.
- Turn on Altitude Mode when located in high altitude areas
- When installation the bracket, make sure the weight limit is not exceed and firmly secured.
- Avoid installing near air conditioner duct or subwoofer.
- Avoid installing at high temperature, insufficient cooling and heavy dust locations.
- Keep your product away from fluorescent lamps (>1 meter) to avoid malfunction caused by IR interference
- The VGA IN connector should be connected to the VGA IN port. Note that it should be inserted tightly, with the screws on both sides securely fastened to ensure proper connection of the signal wire for achieving optimal display effect.
- The AUDIO IN connector should be connected to the AUDIO IN port and CANNOT be connected to AUDIO OUT or other ports like BNC, RCA; otherwise, it will lead to mute output and even DAMAGE the port.
- Install the projector above 200cm to avoid damage.
- The power cord and signal cable should be connected before power on the projector. During the projector starting and operating process, DO NOT insert or remove the signal cable or the power cord to avoid damaging the projector.

Cooling notes

Air outlet

- Make sure the air outlet is 50cm clear of any obstruction to ensure proper cooling.
- Air outlet location should not be in front of the lens of other projector to avoid causing illusions.
- Keep the outlet at least 100cm away from the inlets of other projectors
- The projector generates a massive amount of heat during use. The internal fan dissipates the heat of the projector when shutting down, and such process may continue for a certain period. After the project enters STANDBY MODE status, press the AC power button to turn off the projector and remove the power cord. DO NOT remove the power cord during the shutdown process, as it may cause damage to the projector. In the meantime, the delayed heat radiating will also affect the service life of the projector. The shutdown process may vary depending on the model used. Whatever the case may be, be sure to disconnect the power cord till after the projector enters the STANDBY status.

Air inlet

- Make sure there is no object blocking air input within 30 cm.
- Keep the inlet away from other heat sources
- Avoided heavy dust area

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Power Safety

- Only use the supplied power cord.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.
- Remove the batteries from the remote control when storing or not in use for a prolonged period.

Replacing the Lamp

Replacing the lamp can be hazardous if done incorrectly. See *Replacing the Projection Lamp* on page 49 for clear and safe instructions for this procedure. Before replacing the lamp:

- Unplug the power cord.
- Allow the lamp to cool for about one hour.

> ***Caution:***
> *In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.*
>
> *Do not inhale or do not touch glass dust or shards. Doing so could result in injury.*
>
> *Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.*

Cleaning the Projector

- Unplug the power cord before cleaning. See *Cleaning the Projector* on page 53.
- Allow the lamp to cool for about one hour.

Regulatory Warnings

Before installing and using the projector, read the regulatory notices in the *Regulatory Compliance* on page 65.

Important Recycle Instructions:

Hg Lamp(s) inside this product contain mercury. This product may contain other electronic waste that can be hazardous if not disposed of properly. Recycle or dispose in accordance with local, state, or federal Laws. For more information, contact the Electronic Industries Alliance at WWW.EIAE.ORG. For lamp specific disposal information check WWW.LAMPRECYCLE.ORG.

Symbol Explanations

DISPOSAL: Do not use household or municipal waste collection services for disposal of electrical and electronic equipment. EU countries require the use of separate recycling collection services.

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Main Features

- *Lightweight unit, easy to pack away and transport.*
- *Compatible with all major video standards including NTSC, PAL, and SECAM.*
- *A high brightness rating allows for presentations in daylight or in lit rooms.*
- *Supports resolutions up to WUXGA at 16.7 million colors to deliver crisp, clear images.*
- *Flexible setup allows for front, rear projections.*
- *Line-of-vision projections remain square, with advanced keystone correction for angled projections.*
- *Input source automatically detected.*

About this Manual

This manual is intended for end users and describes how to install and operate the DLP projector. Wherever possible, relevant information—such as an illustration and its description—has been kept on one page. This printer-friendly format is both for your convenience and to help save paper, thereby protecting the environment. It is suggested that you only print sections that are relevant to your needs.

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Table of Contents

GETTING STARTED 1

PACKING CHECKLIST 1
VIEWS OF PROJECTOR PARTS 2
Front-right View 2
Top view—On-screen Display (OSD) buttons 3
Rear view 4
Bottom view 6
REMOTE CONTROL PARTS 7
REMOTE CONTROL OPERATING RANGE 9
PROJECTOR AND REMOTE CONTROL BUTTONS 9

SETUP AND OPERATION 10

INSERTING THE REMOTE CONTROL BATTERIES 10
INSTALLING OR REMOVING THE OPTIONAL LENS 11
Removing the Existing Lens From the Projector 11
Installing the New Lens 12
STARTING AND SHUTTING DOWN THE PROJECTOR 13
SETTING AN ACCESS PASSWORD (SECURITY LOCK) 15
ADJUSTING THE PROJECTOR LEVEL 17
ADJUSTING PROJECTED IMAGE POSITION USING SHIFT 18
Adjusting the vertical image position 18
Adjusting the horizontal image position 19
Shift Range Diagram 19
ADJUSTING THE ZOOM, FOCUS AND KEYSTONE 20

ON-SCREEN DISPLAY (OSD) MENU SETTINGS 21

OSD MENU CONTROLS 21
Navigating the OSD 21
SETTING THE OSD LANGUAGE 22
OSD MENU OVERVIEW 23
IMAGE MENU 26
Advanced Feature 27
Color Manager 28
COMPUTER MENU 30
VIDEO MENU 31
Audio 32
INSTALLATION I MENU 33
Advanced Feature 34
INSTALLATION II MENU 35
Advanced Feature 36
OSD Menu Setting 37
Lamp Hour Reset 38
3D 38
Network 39
Remote Setting 48
Status 48

MAINTENANCE AND SECURITY 49

REPLACING THE PROJECTION LAMP 49
Resetting the Lamp Time 52
CLEANING THE PROJECTOR 53
Cleaning the Lens 53
Cleaning the Case 53
USING THE PHYSICAL LOCK 54
Using the Kensington Security Slot 54
Using the Security Chain Lock 54

TROUBLESHOOTING 55

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COMMON PROBLEMS ANO SOLUTIONS 55
TIPS FOR TROUBLESHOOTING 55
LED ERROR MESSAGES 56
IMAGE PROBLEMS 56
LAMP PROBLEMS 57
REMOTE CONTROL PROBLEMS 57
AUOIO PROBLEMS 57
HAVING THE PROJECTOR SERVICEO 57
HDMI Q & A 58

SPECIFICATIONS 59

SPECIFICATIONS 59
PROJECTION DISTANCE VS. PROJECTION SIZE (XGA) 60
Projection Distance and Size Table 60
TIMING MOOE TABLE 62
PROJECTOR DIMENSIONS 64

REGULATORY COMPLIANCE 65

FCC WARNING 65
CANADA 65
SAFETY CERTIFICATIONS 65

APPENDIX I 66

FUNCTION COMMAND SUMMARY TABLE: 66

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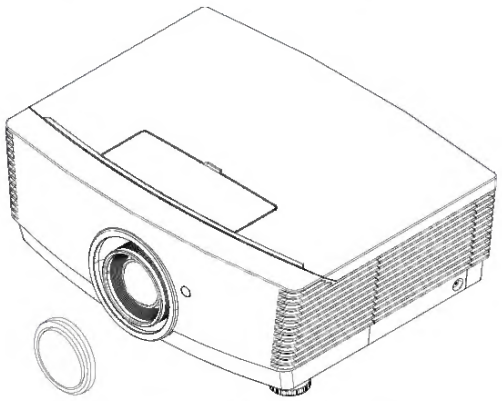
GETTING STARTED

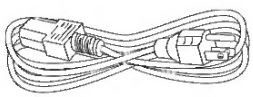
Packing Checklist

Carefully unpack the projector and check that the following items are included:



PROJECTOR WITH LENS CAP

REMOTE CONTROL
(WITH TWO AAA BATTERIES)



POWER CORD

VGA CABLE

CD-ROM
(THIS USER'S MANUAL)

WARRANTY CARD

QUICK START CARD

SECURITY CARD

Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.

> ***Caution:***
> *Avoid using the projector in dusty environments.*
> *Keep **Security card** in safe place.*

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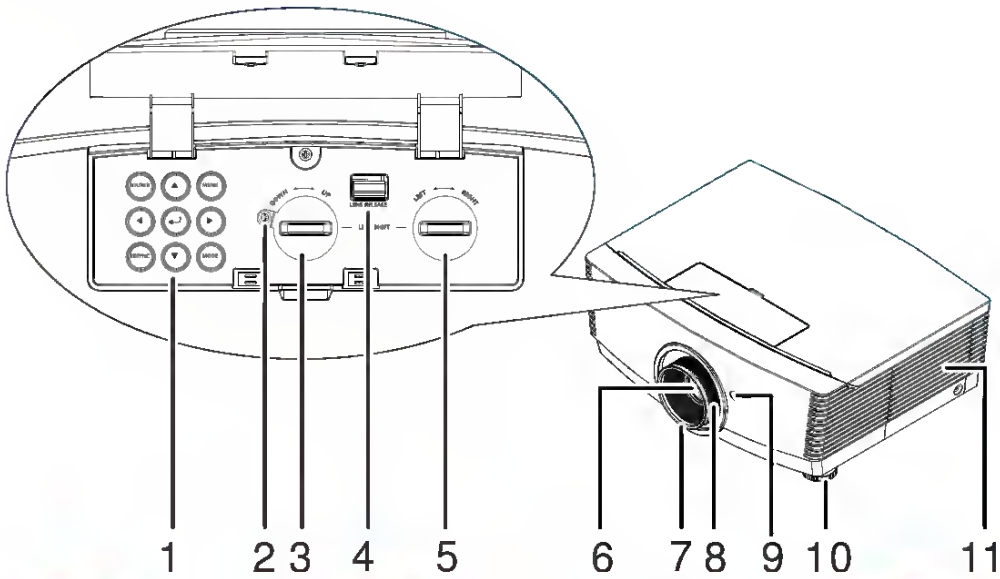
Views of Projector Parts

Front-right View



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Function keys	See Top view—On-screen Display (OSD) buttons.	3
2.	Screw	For ensure the lens position.	
3.	Vertical lens shift	Adjusts the image position vertically.	18
4.	Lens release button	Press the release button before removing the lens.	11
5.	Horizontal lens shift	Adjusts the image position horizontally.	19
6.	Lens	Projection Lens.	
7.	Focus ring	Focuses the projected image.	20
8.	Zoom ring	Enlarges the projected image.	
9.	IR receiver	Receives IR signal from remote control.	7
10.	Height adjuster	Adjusts level of projector.	15
11.	Lamp cover	Removes cover to replace lamp module.	49

Important:
Ventilation openings on the projector allow for good air circulation, which keeps the projector lamp cool. Do not obstruct any of the ventilation openings.

Note:
Suggest to loosen the screw before lens shift adjustment and tighten up after finished adjustment.

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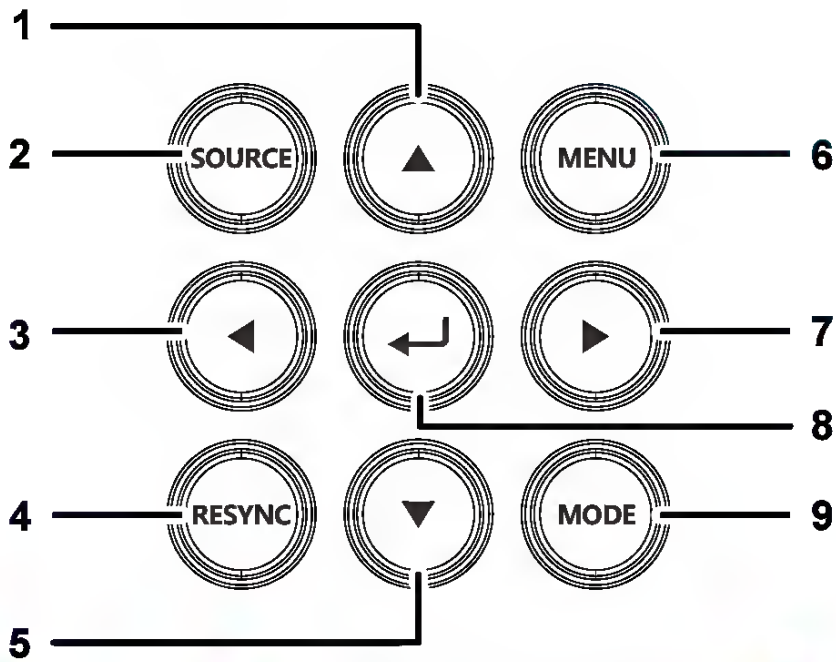
Top view—On-screen Display (OSD) buttons



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	▲	Navigates and changes settings in the OSD.	
2.	SOURCE	Enter the Source menu.	
3.	◀	Navigates and changes settings in the OSD.	
4.	RESYNC	Toggle auto-tracking image function.	
5.	▼	Navigates and changes settings in the OSD.	21
6.	MENU	Opens and exits OSD menus.	
7.	▶	Navigates and changes settings in the OSD.	
8.	↵	Enter or confirm highlighted OSD menu item.	
9.	MODE	Toggle a preset display mode.	

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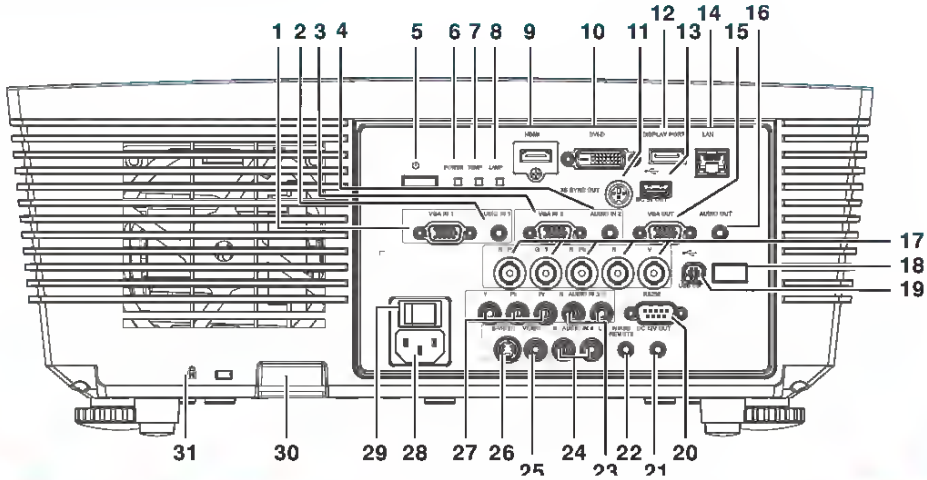
Rear view



ITEM	LABEL	DESCRIPTION		SEE PAGE
1.	VGA1	Connect a RGB cable from a computer or a video enabled device.		
2.	AUDIO IN 1	Connect the AUDIO cable from an input device.		
3.	VGA2	Connect a RGB cable from a computer or a video enabled device.		
4.	AUDIO IN 2	Connect the AUDIO cable from an input device. **Note**: Share with DVI & BNC audio input.		
5.	POWER	Turns the projector on or off (main power switch must be turned on first). Press to place the projector in standby mode.		13
6.	PWR LED	Red	Standby	56
		Green	Lamp Lit , System stable	
		Flashing	Power on, Cooling, Error code (See as LED indicator table)	
7.	TEMP LED	Red	Over temperature	
		Flashing	Error Code(See as LED indicator table)	
8.	LAMP LED	Red	Lamp Fail	
		Flashing	Error code (See as LED indicator table)	
9.	HDMI	Connect the HDMI cable from a HDMI device.		
10.	DVI-D	Connect the DVI cable from a computer.		
11.	3D SYNC OUT (5V)	Connect 3D IR glasses receiver unit.		
12.	DISPLAYPORT	Connect a DISPLAYPORT cable to a DISPLAYPORT source.		
13.	USB CHARGE (1.5A)	For USB charge.		
14.	RJ-45	Connect a LAN cable from Ethernet.		
15.	VGA OUT	Connect the RGB cable to a display. (Pass through by VGA1 only)		

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ITEM	LABEL	DESCRIPTION	SEE PAGE
16.	AUDIO OUT	Connect an AUDIO cable for audio loop through.	
17.	BNC	Connect a BNC cable from a computer.	
18.	IR receiver	Receive IR signal from remote control.	7
19.	SERVICE	For service use.	
20.	RS-232	Connects RS-232 serial port cable for remote control.	
21.	12V	When connected to the screen through a commercially available cable, the screen deploys automatically on start up of the projector. The screen retracts when the projector is powered off (see notes below).	
22.	WIRED REMOTE	Wire remote control connector (connect with wire remote connector of the Remote Control set).	
23.	AUDIO IN 3 L/R RCA (YPbPr)	Connect the audio cables from a audio device.	
24.	AUDIO IN 4 L/R RCA (Video/ S-Video)	Connect the audio cables from a audio device.	
25.	VIDEO	Connect the composite cable from a video device.	
26.	S-VIDEO	Connect the S-video cable from a video device.	
27.	YPbPr	Connect a component video enabled device.	
28.	AC IN	Connects the power cable.	13
29.	Power switch	Turns on/off the projector.	
30.	Security chain lock	Helps protect the projector from unauthorized use.	54
31.	Kensington Lock	Secures to permanent object with a Kensington Lock system.	

Note:
- *To use this feature, you must plug in the connector before turn on/off the projector.*
- *Screen controllers are supplied and supported by screen manufacturers.*
- *Do not use this jack for anything other than intended use.*

Note:
If your video equipment has both S-VIDEO and RCA jacks (composite video) connect to the S-VIDEO connector. S-VIDEO provides a better quality signal.

Warning:
As a safety precaution, disconnect all power to the projector and connecting devices before making connections.

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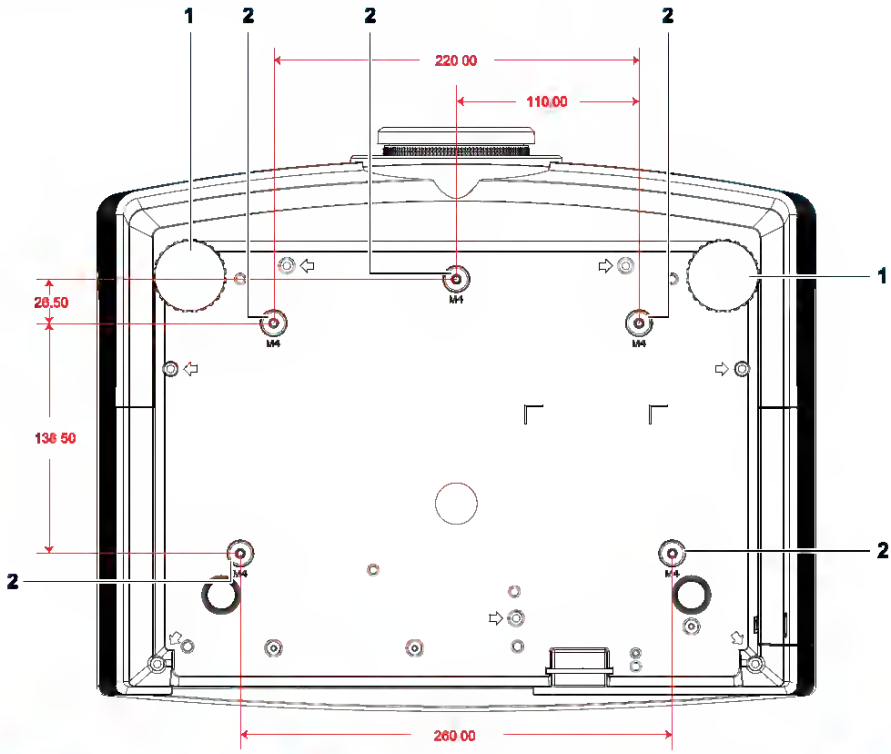
Bottom view



ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	Tilt adjustor	Rotate adjuster lever to adjust angle position.	15
2.	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling	

Note:
When installing, ensure that you use only UL Listed ceiling mounts.
For ceiling installations, use approved mounting hardware and M4 screws with a maximum screw depth of 12 mm (0.47 inch).
The construction of the ceiling mount must be of a suitable shape and strength. The ceiling mount load capacity must exceed the weight of the installed equipment, and as an additional precaution be capable of withstanding three times the weight of the equipment over a period of 60 seconds.

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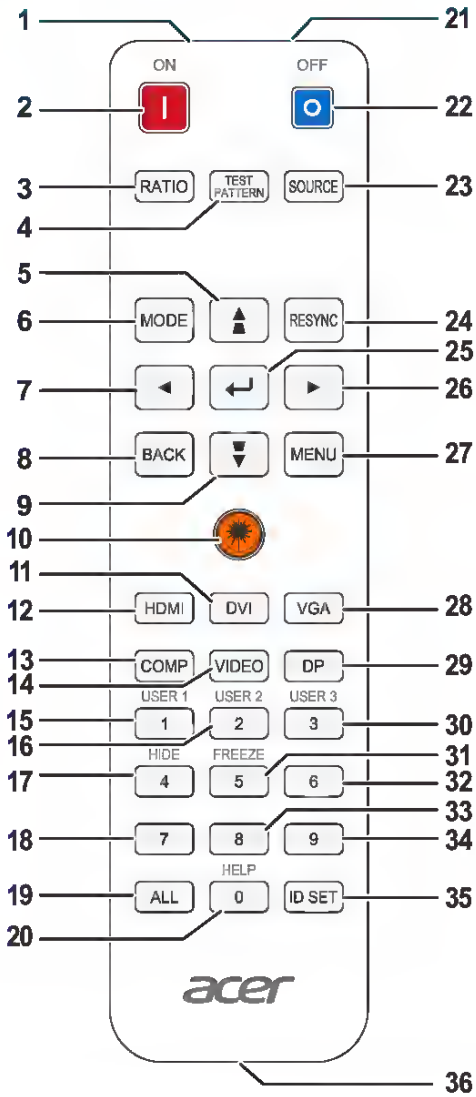
Remote Control Parts



Important:

1. *Avoid using the projector with bright fluorescent lighting turned on. Certain high-frequency fluorescent lights can disrupt remote control operation.*

2. *Be sure nothing obstructs the path between the remote control and the projector. If the path between the remote control and the projector is obstructed, you can bounce the signal off certain reflective surfaces such as projector screens.*

3. *The buttons and keys on the projector have the same functions as the corresponding buttons on the remote control. This user's manual describes the functions based on the remote control*

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ITEM	LABEL	DESCRIPTION	SEE PAGE
1.	IR Transmitter	Transmits signals to projector.	
2.	Power ON	Turns the projector on	13
3.	RATIO	Displays the ASPECT RATIO selections	
4.	TEST PATTERN	Toggle on / off test pattern	
5.	▲	Navigates and changes settings in the OSD Quick Menu – For Keystone	21
6.	MODE	Toggle a preset display mode.	
7.	◀	Navigates and changes settings in the OSD	
8.	BACK	Goes back to previous OSD menu.	
9.	▼	Navigates and changes settings in the OSD Quick Menu – For Keystone	21
10.	Laser	Press to operate the on-screen pointer. **DO NOT POINT IN EYES.**	
11.	DVI	Displays the DVI source selection	
12.	HDMI	Displays the HDMI source selection	
13.	COMP	Displays the Component source selection	
14.	VIDEO	Displays the VIDEO source selection	
15.	1/USER1	Menu on: Number for Remote ID or password setting used. Menu off: Hot key function of USER1 on OSD.	
16.	2/USER2	Menu on: Number for Remote ID or password setting used. Menu off: Hot key function of USER2 on OSD.	
17.	4/HIDE	Menu on: Number for Remote ID or password setting used. Menu off: Press the button to hide video and audio.	
18.	7	Number for Remote ID or password setting used.	
19.	ALL	All number for Remote ID setting used.	
20.	0/HELP	Menu on: Number for Remote ID or password setting used. Menu off: Press the button to display ID number of this remote	
21.	Laser	Use as on-screen pointer. **DO NOT POINT IN EYES.**	
22.	Power OFF	Turns the projector off	13
23.	SOURCE	Alternate input source	21
24.	RESYNC	Toggle auto-tracking image function	
25.	↵	Enters and confirms settings in the OSD	
26.	▶	Navigates and changes settings in the OSD	
27.	MENU	Opens or closed the OSD	
28.	VGA	Displays the VGA source selection	
29.	DP	Displays the DisplayPort source selection	
30.	3/USER3	Menu on: Number for Remote ID or password setting used. Menu off: Hot key function of USER3 on OSD.	
31.	5/FREEZE	Menu on: Number for Remote ID or password setting used. Menu off: Freezes/unfreezes the on-screen picture	
32.	6	Number for Remote ID or password setting used.	

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ITEM	LABEL	DESCRIPTION	SEE PAGE
33.	8	Number for Remote ID or password setting used.	
34.	9	Number for Remote ID or password setting used.	
35.	ID SET	Press to set remote ID. Press **ID SET** for three seconds. The backlight on the remote control blinks, then press 01~99 to designate an ID. Press **All** and **ID SET** for five seconds. The backlight on the remote control blinks a single instance to reset control code to all, then can control all projector.	
36.	Wired Jack	Connect wire remote to the projector.	

Remote Control Operating Range

The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. Provided you are not holding the remote perpendicular to the sides or the rear of the projector, the remote will function well within a radius of about 7 meters (23 feet) and 15 degrees above or below the projector level. If the projector does not respond to the remote control, move a little closer.

Projector and Remote Control Buttons

The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

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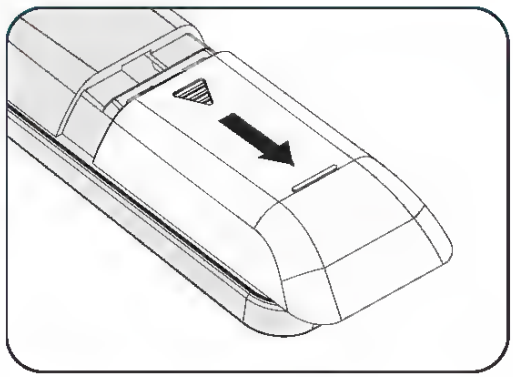
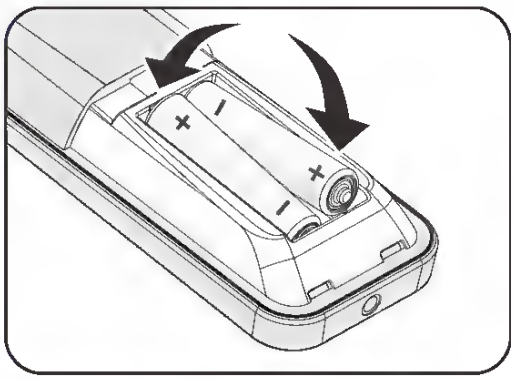
Inserting the Remote Control Batteries

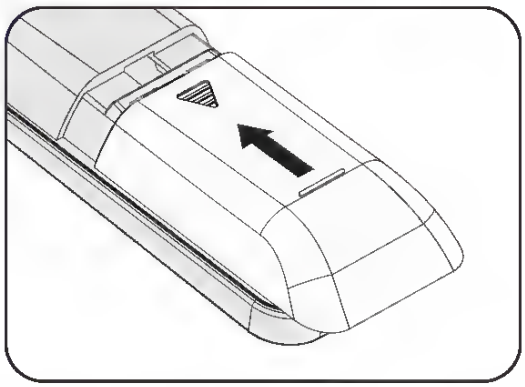
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow.



2. Insert the battery with the positive side facing up.



3. Replace the cover.



Caution:

1. Only use AAA batteries (Alkaline batteries are recommended).

2. Dispose of used batteries according to local ordinance regulations.

3. Remove the batteries when not using the projector for prolonged periods.

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Installing or Removing the Optional Lens

Caution:

• Do not shake or place excessive pressure on the projector or the lens components as the projector and lens components contain precision parts.

• Before removing or installing the lens, be sure to turn off the projector, wait until the cooling fans stop, and turn off the main power switch.

• Do not touch the lens surface when removing or installing the lens.

• Keep fingerprints, dust or oil off the lens surface.

• Do not scratch the lens surface.

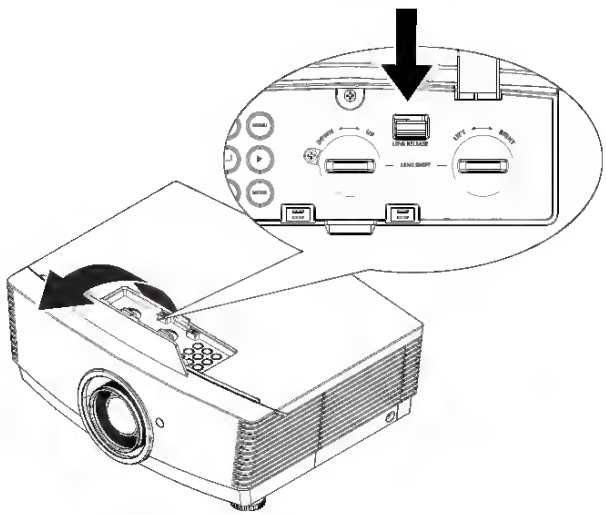
• Work on a level surface with a soft cloth under it to avoid scratching.

• If you remove and store the lens, attach the lens cap to the projector to keep off dust and dirt.

Removing the Existing Lens From the Projector

1. Pull and release the top cover to open as shown.

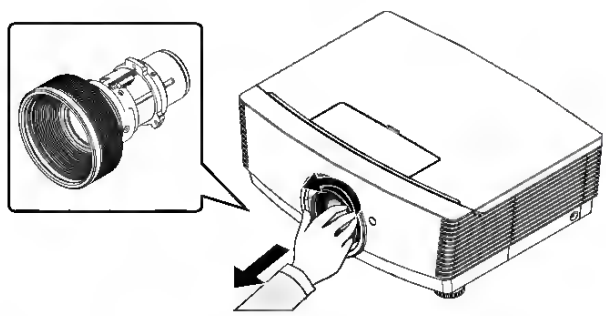
2. Push the LENSE RELEASE button to the unlock position.



3. Grasp the lens.

4. Rotate the lens counterclockwise. The existing lens will be disengaged.

5. Pull out the existing lens slowly.



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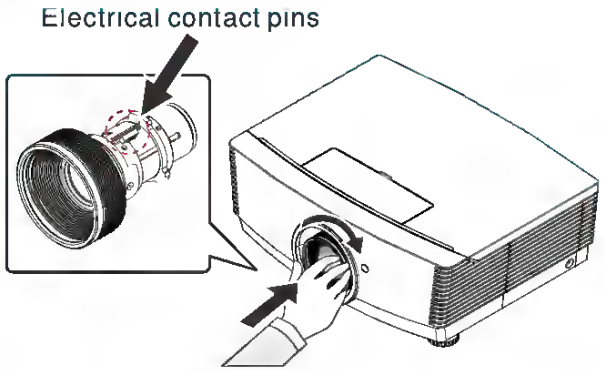
Installing the New Lens

1. Align the notches and correctly position the electrical contact pad as shown in the picture.

> ***Note:***
> *Pin of Electrical contact pins should be in the direction as shown in the picture.*

2. Rotate the lens clockwise until you feel it click into place.



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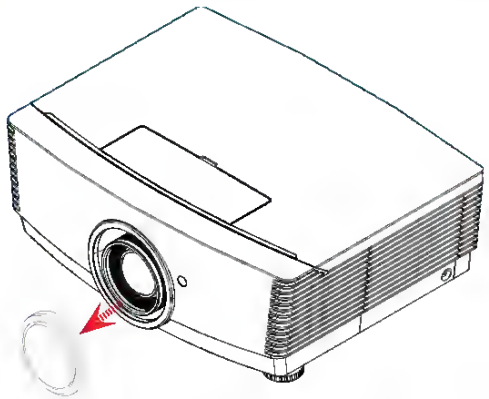
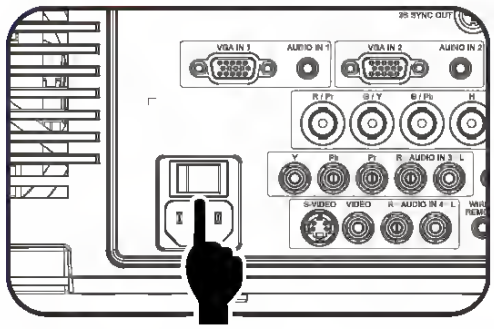
Starting and Shutting down the Projector

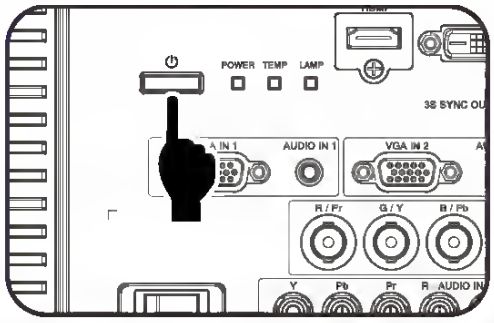
1. Remove the lens cap.



2. Securely connect the power cord and signal cable. When connected, the power led will turn red.



3. Turn on the lamp by pressing "⏻" button on the rear of the projector or "ON I" on the remote control.
The PWR LED will now flash red. The startup screen will display in approximately 30 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display.



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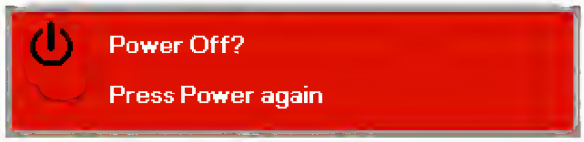
4. If more than one input device is connected, press the **SOURCE** button and use ▲▼ to scroll among devices.

- DVI: Digital Visual Interface
- HDMI: High-Definition Multimedia Interface compatible
- DisplayPort: Digital display interface
- VGA 1 / 2: Analog RGB 1 / 2
- BNC: Analog RGB (BNC connector)
- Component Video: DVD input YCbCr / YPbPr , *or* HDTV input YPbPr
- S-Video: Super video (Y/C separated)
- Composite Video: Traditional composite video

5. When the "Power Off? /Press **Power** again" message appears, press the **POWER** button. The projector turns off.



Caution:

1. *Be sure to remove the lens cap before starting projector.*
2. *Do not unplug the power cord until the PWR LED stops flashing–indicating the projector has cooled down.*

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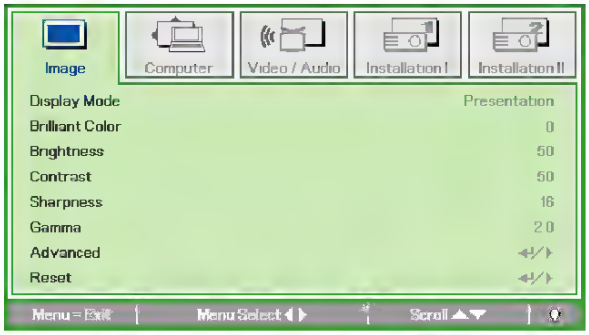
Setting an Access Password (Security Lock)

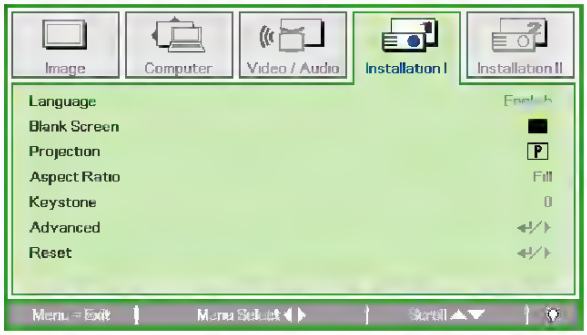
You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See *Navigating the OSD* on page 21 and *Setting the OSD Language* on page 22 for help on using OSD menus.)

> ***Important:***
> *Keep the password / Security card in a safe place.*

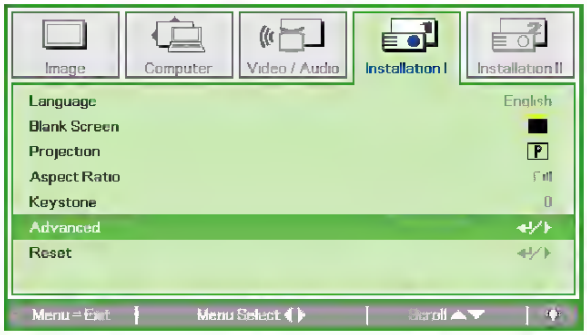
1. Press the **MENU** button to open the OSD menu.



2. Press the cursor ◄► button to move to the **Installation I** menu.



3. Press the cursor ▲▼ button to select **Advanced**.



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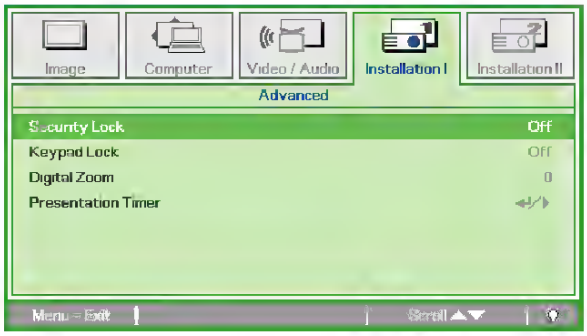
4. Press the cursor ▲▼ button to select **Security Lock**.

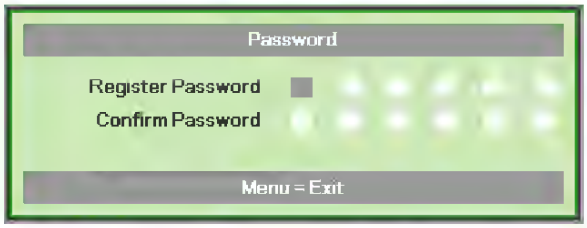
5. Press the cursor ◄► button to enable or disable security lock function.

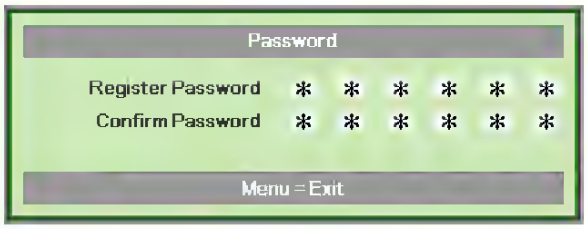
A password dialog box automatically appears.



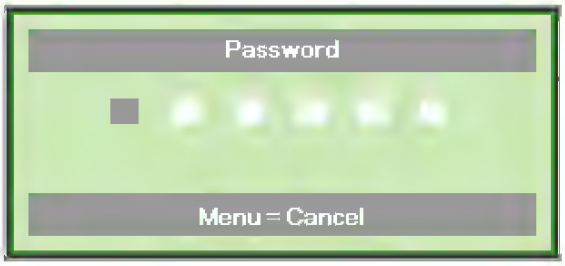
6. You can use the number buttons on IR remote control for password entry. You can use any number six times, but not less than six.

Press the number buttons in any order to set the password. Push the **MENU** button to exit the dialog box.





7. The password confirm menu appears when user presses the power-on key in case the **Security Lock** is enabled. Enter the password in the order you set it at step 6.



Note:
In case you forget the password, enter the PWD code on the included security card to return normal function to the projector and set ***Security Lock*** *to off or re-setting password.*

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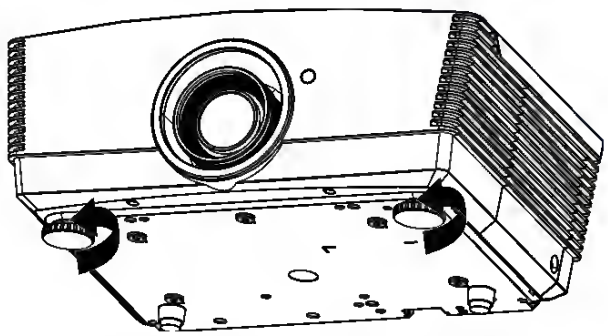
Adjusting the Projector Level

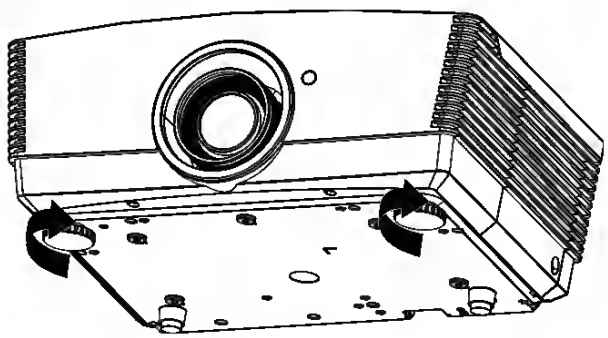
Take note of the following when setting up the projector:

- *The projector table or stand should be level and sturdy.*
- *Position the projector so that it is perpendicular to the screen.*
- *Remove the Back Foot Holder on the rear adjuster foot before adjusting the projection angle.*
- *Ensure the cables are in a safe location. You could trip over them.*

1. To raise the level of the projector, twist the adjusters counter clockwise.



2. To lower the level of the projector, lift the projector and twist the adjusters clockwise.



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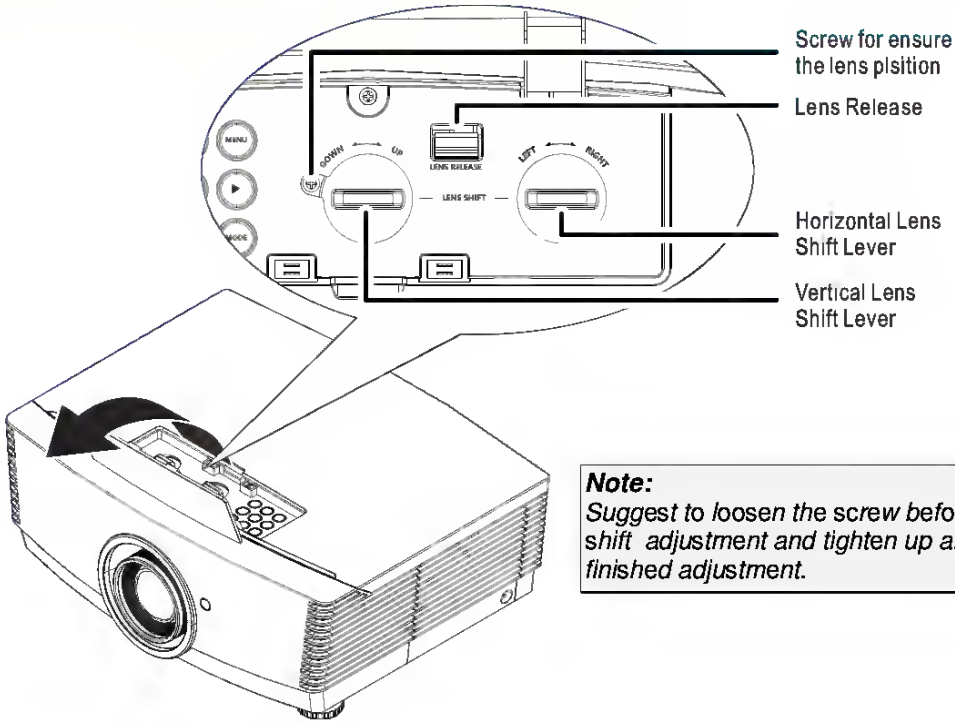
Adjusting Projected Image Position Using Shift



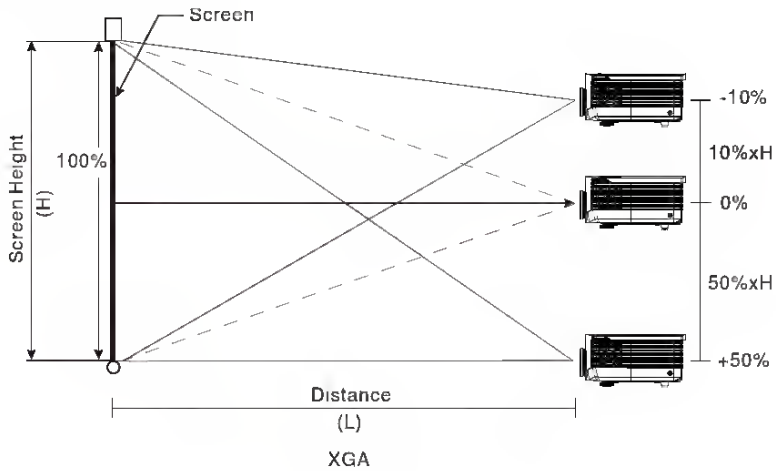
Note:
Suggest to loosen the screw before lens shift adjustment and tighten up after finished adjustment.

The Shift feature provides a lens shift function that can be used to adjust the position of the projected image either horizontally or vertically within the range detailed below.

Shift is a unique system that provides lens shift while maintaining a much higher ANSI contrast ratio than traditional lens shift systems.

Adjusting the vertical image position

The vertical image height can be adjusted between 50% and -10% (XGA) of offset position. Note that the maximum vertical image height adjustment can be limited by the horizontal image position. For example it is not possible to achieve the maximum vertical image position height detailed above if the horizontal image position is at maximum. Please consult the Shift Range diagram below for further clarification.



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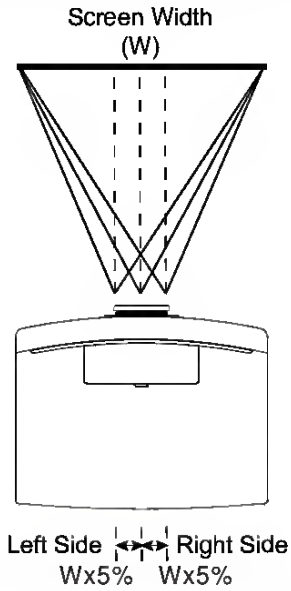
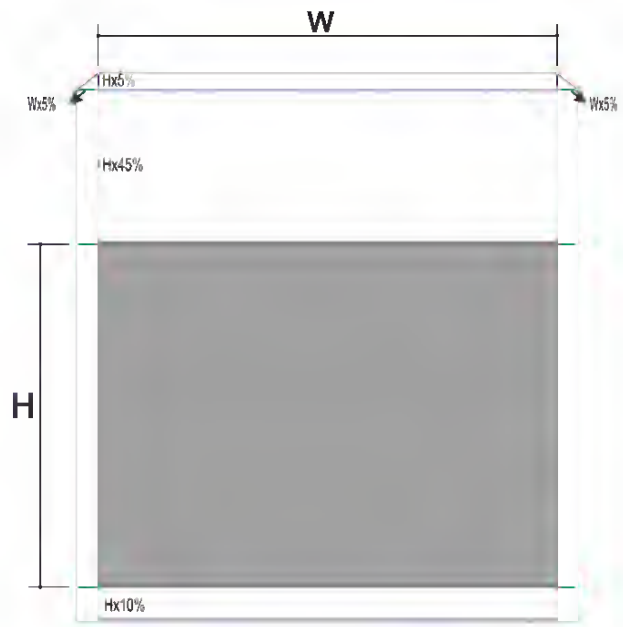
Adjusting the horizontal image position

With the lens in the center position the horizontal image position can be adjusted to the left or right by up to a maximum of 5% of the image width. Note that the maximum horizontal image height adjustment can be limited by the vertical image position. For example it is not possible to achieve the maximum horizontal image position if the vertical image position is at maximum. Please consult the Shift Range diagram below for further clarification.



Shift Range Diagram



When W and H at 0% offset position
The max. H up shift=Hx50%
The max. H down shift=Hx10%
The max. W shift=Wx5%
When max. W shift is Wx5%
max. H shift=Hx45%
When max. H shift is Hx50%
max. W shift=Hx0%

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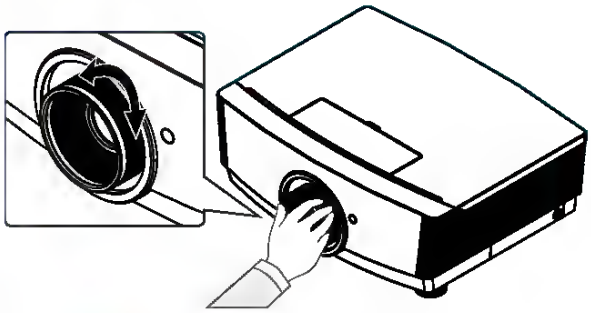
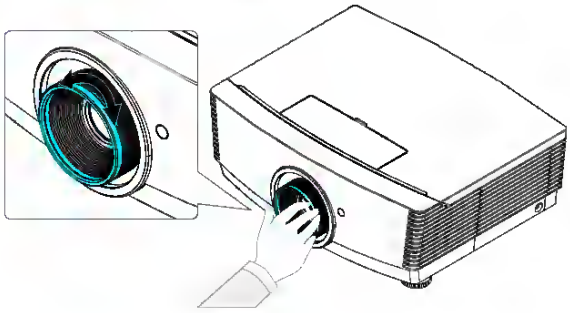
Adjusting the Zoom, Focus and Keystone

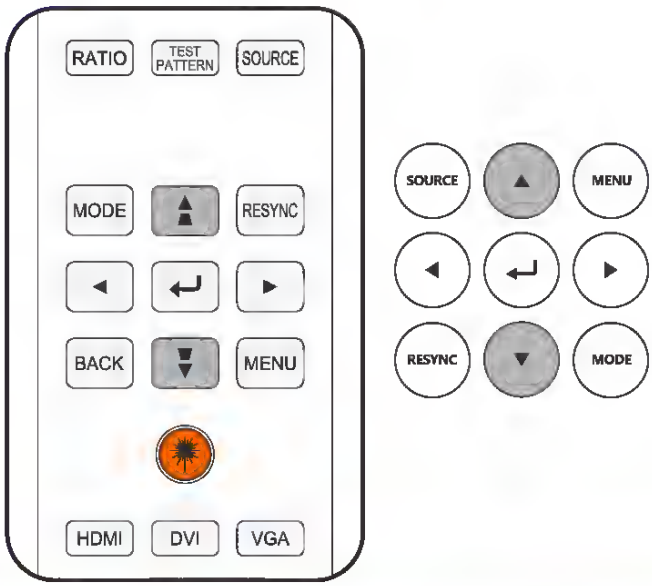
1. Use the **Image-zoom** control (on the projector only) to resize the projected image and screen size.



2. Use the **Image-focus** control (on the projector only) to sharpen the projected image.



3. Use the **KEYSTONE** buttons on the remote control to correct image-trapezoid (wider top or bottom) effect.



4. The keystone control appears on the display.

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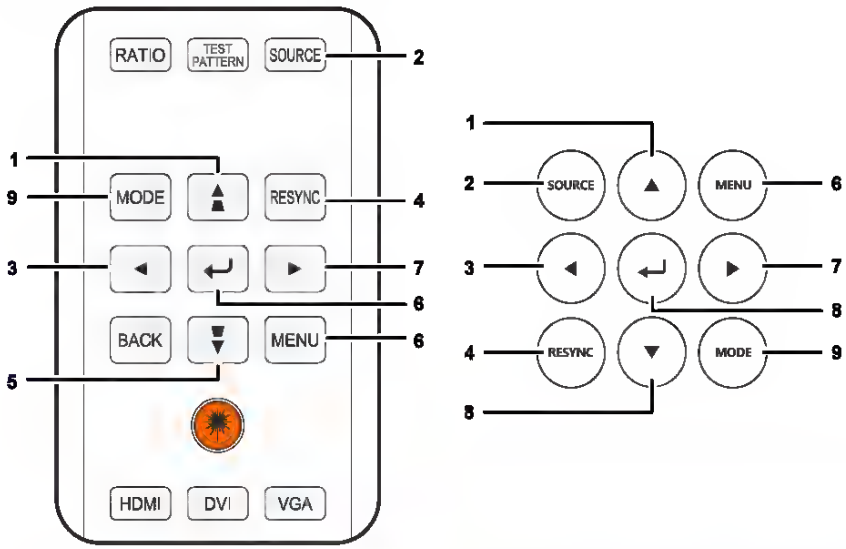
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

OSD Menu Controls

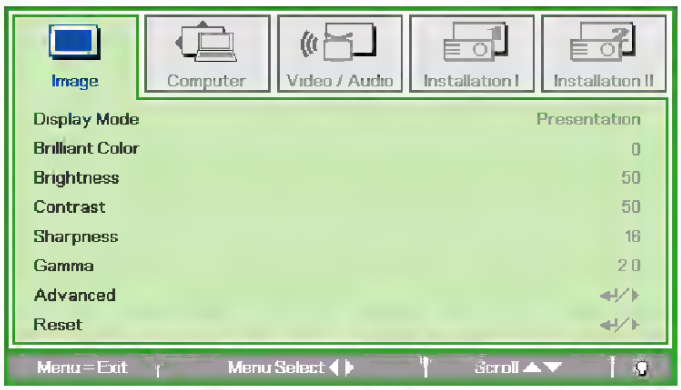
The projector has an OSD that lets you make image adjustments and change various settings.

Navigating the OSD

You can use the remote control cursor buttons or the buttons on the top of the projector to navigate and make changes to the OSD. The following illustration shows the corresponding buttons on the projector.



1. To enter the OSD, press the **MENU** button.
2. There are five menus. Press the cursor ◄► button to move through the menus.
3. Press the cursor ▲▼ button to move up and down in a menu.
4. Press ◄► to change values for settings.
5. Press **MENU** to close the OSD or leave a submenu.



Note:
Depending on the video source, not all items in the OSD are available. For example, the ***Horizontal/Vertical Position*** *items in the* ***Computer*** *menu can only be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.*

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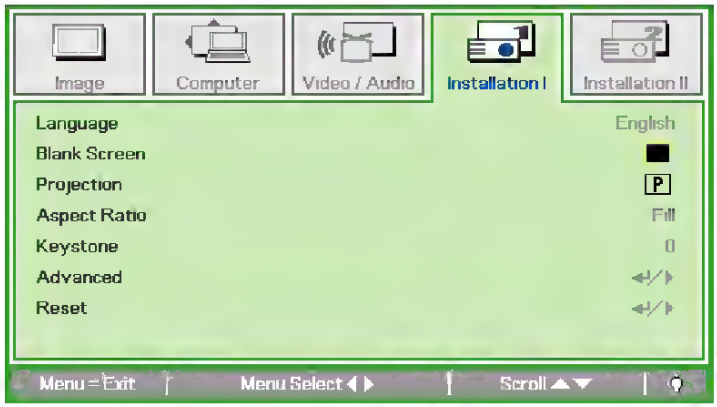
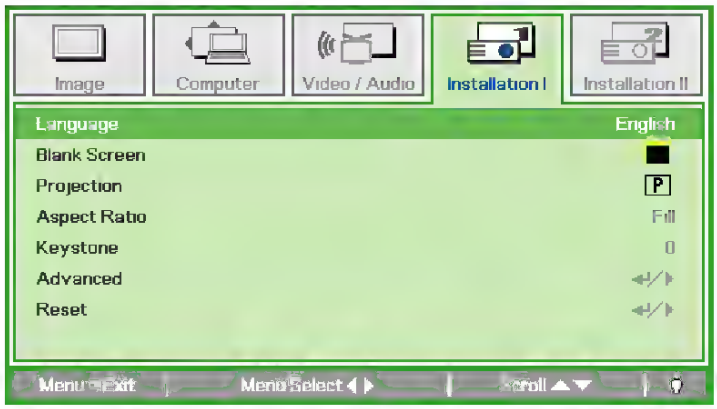
Setting the OSD Language

Set the OSD language to your preference before continuing.

1. Press the **MENU** button. Press the cursor ◄► button to navigate to Installation I.



2. Press the cursor ▲▼ button until **Language** is highlighted.



3. Press the cursor ◄► button until the language you want is highlighted.
4. Press the **MENU** button twice to close the OSD.

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OSD Menu Overview

Use the following illustration to quickly find a setting or determine the range for a setting.

Main Menu	Sub Menu			Settings
Image	Display Mode			3D Disable: Presentation, Bright, Game, Movie, TV, sRGB, User 3D Enable: 3D
	Brilliant Color			0~10
	Brightness			0~100
	Contrast			0~100
	Sharpness			0~31
	Gamma			2.0, 2.2, 2.4, 2.6, 2.8
	Advanced	Color Space		Auto, RGB, YUV
		Color Temperature		Warm, Normal, Cold
		Color Manager	Red	Hue, Saturation, Gain
			Green	Hue, Saturation, Gain
			Blue	Hue, Saturation, Gain
			Cyan	Hue, Saturation, Gain
			Magenta	Hue, Saturation, Gain
			Yellow	Hue, Saturation, Gain
			White	Red, Green, Blue
		White Balance	R Gain	0~200
			G Gain	0~200
			B Gain	0~200
			R Offset	-50~50
			G Offset	-50~50
			B Offset	-50~50
	Reset			
Computer	Horizontal Position			-5~5
	Vertical Position			-5~5
	Frequency			
	Tracking			
	Auto Image			
Video / Audio	Video AGC			Off, On
	Video Saturation			0~100
	Video Tint			0~100
	Closed Captioning			Off, On
	Audio	Volume		0~10
		Mute		Off, On
	Reset			

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Main Menu	Sub Menu			Settings
Installation I	Language			English, Français, Deutsch, Español, Português, 簡体中文, 繁體中文, Italiano, Norsk, Svenska, Nederlands, Русский, Suomi, 한국어, العربية, Türkçe, 日本語, Português do Brasil, Ағылшын, Viêt, Dansk
	Blank Screen			Black, Red, Green, Blue, White
	Projection			Front, Rear, Ceiling, Rear+Ceiling
	Aspect Ratio			Fill, 4:3, 16:9, Letter Box, Native
	Keystone			-40~40
	Advanced	Security Lock		Off ,On
		Keypad Lock		Off ,On
		Digital Zoom		-10~10
		Presentation Timer	Timer	Off ,On
			Timer Period	1-60
			Timer Reset	
	Reset			

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Main Menu	Sub Menu			Settings
Installation II	Auto Source			Off, On
	Auto Power Off (min.)			0~180
	Auto Power On			Off, On
	Fan Speed			Normal, High
	Lamp Mode			Normal, Bright
	Advanced	OSD Menu Setting	Menu Position	Center, Down, Up, Left, Right
			Translucent Menu	0%, 25%, 50%, 75%, 100%
			Menu Display	10~20
		Lamp Hour Reset		
		Low Power Mode		On, Off, On By Lan
		Test Pattern		Off, On
		3D	3D	Off, DLP-Link, IR
			3D Sync Invert	Off, On
			3D Format	Frame Sequential, Top/Bottom, Side-By-Side, Frame Packing (3D Frame Packing HDMI source only)
		Network	Network State	Disconnect, Connect
			DHCP	Off, On
			IP Address	0~255, 0~255, 0~255, 0~255
			Subnet Mask	0~255, 0~255, 0~255, 0~255
			Gateway	0~255, 0~255, 0~255, 0~255
			DNS	0~255, 0~255, 0~255, 0~255
			Apply	Cancel, OK
		Remote Setting	User1	Contrast, Sharpness, Gamma
			User2	Brightness, Brilliant Color, Color Temperature
			User3	Projector, Mute, Digital Zoom, 3D
			ID Number	All, 01 ~ 99
	Reset All			
	Status	Active Source		
		Video Information		
		Lamp Hours (Normal, Bright)		
		Software version		
		S/N		

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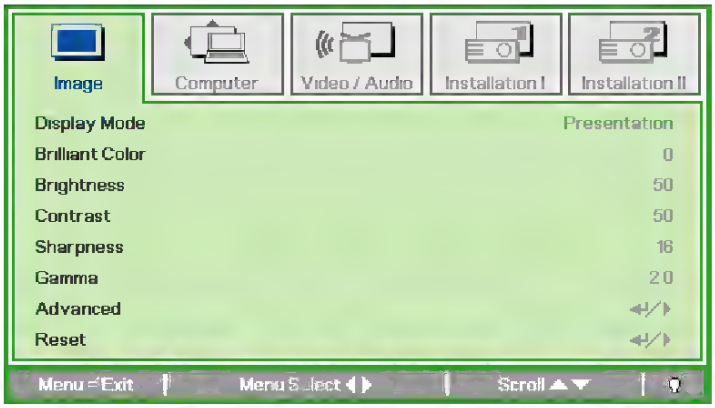
Image Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Image Menu**. Press the cursor ▲▼ button to move up and down in the **Image** menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Display Mode	Press the cursor ◄► button to set the Display Mode.
Brilliant Color	Press the cursor ◄► button to adjust the Brilliant Color value.
Brightness	Press the cursor ◄► button to adjust the display brightness.
Contrast	Press the cursor ◄► button to adjust the display contrast.
Sharpness	Press the cursor ◄► button to adjust the display sharpness level.
Gamma	Press the cursor ◄► button to adjust the gamma correction of the display
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 27.
Reset	Press ↵ (Enter) / ► to reset all settings to default values.

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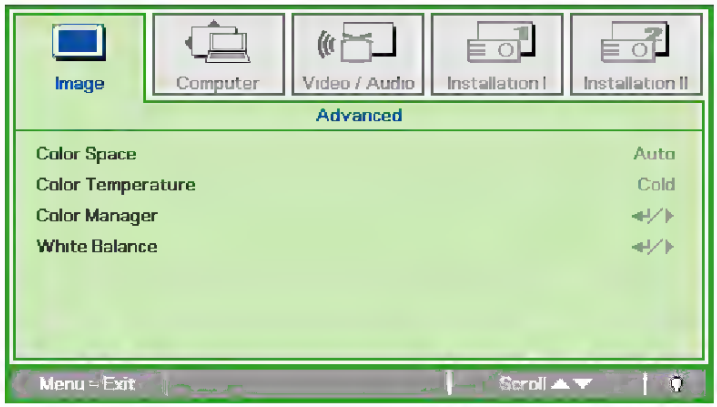
Advanced Feature

Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Image** menu. Press ▼▲ to move to the **Advanced** menu and then press ↵ (Enter) or ►. Press ▼▲ to move up and down in the **Advanced** menu.



ITEM	DESCRIPTION
Color Space	Press the cursor ◄► button to adjust the color space.
Color Temperature	Press the cursor ◄► button to adjust the color temperature.
Color Manager	Press ↵ (Enter) / ► to enter the color manager menu. See page 28 for more information on *Color Manager*.
White Balance	Press ↵ (Enter) / ► button to enter the White Balance menu. See *White Balance* on page 29

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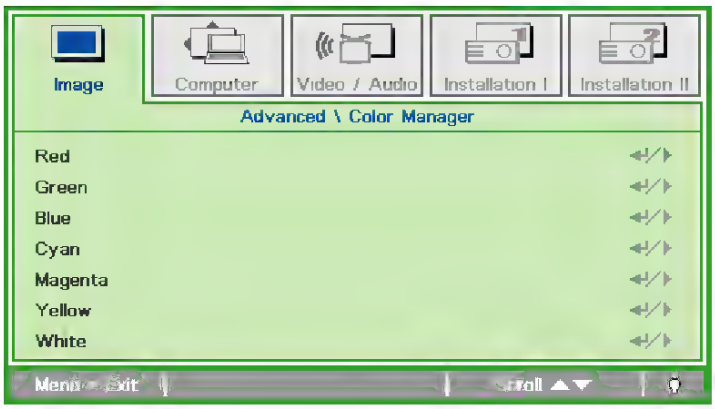
Color Manager

Press ↵ (Enter) / ► to enter the **Color Manager** sub menu.



ITEM	DESCRIPTION
Red	Select to enter the Red Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Green	Select to enter the Green Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Blue	Select to enter the Blue Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Cyan	Select to enter the Cyan Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Magenta	Select to enter the Magenta Color Manager. Press the ◄► buttons to adjust the Hue, Saturation, and Gain.
Yellow	Select to enter the Yellow Color Manager. Press the◄► buttons to adjust the Hue, Saturation, and Gain.
White	Select to enter the White Color Manager. Press the ◄► buttons to adjust the Red, Green, and Blue.

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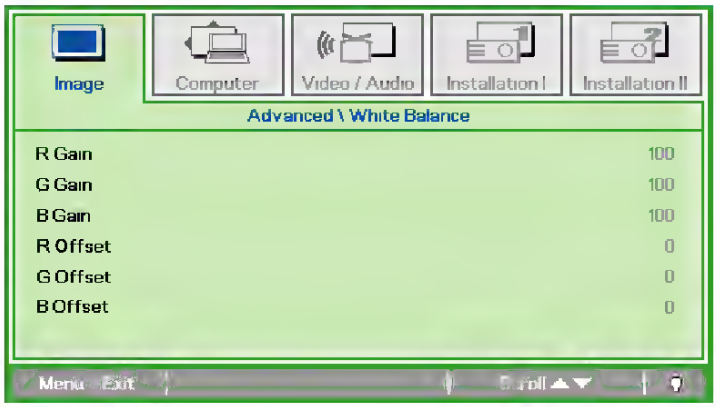
White Balance

Press ↵ (Enter) or ► button to enter the **White Balance** sub menu.



ITEM	DESCRIPTION
R Gain	Press the ◄► buttons to adjust the Red Gain.
G Gain	Press the ◄► buttons to adjust the Green Gain.
B Gain	Press the ◄► buttons to adjust the Blue Gain.
R Offset	Press the ◄► buttons to adjust the Red Offset.
G Offset	Press the ◄► buttons to adjust the Green Offset.
B Offset	Press the ◄► buttons to adjust the Blue Offset.

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Computer Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Computer** menu. Press the cursor ▲▼ button to move up and down in the computer menu. Press ◄► to change values for settings.

ITEM	DESCRIPTION
Horizontal Position	Press the cursor ◄► button to adjust the display position to left or right.
Vertical Position	Press the cursor ◄► button to adjust the display position to up or down.
Frequency	Press the cursor ◄► button to adjust the A/D sampling clock.
Tracking	Press the cursor ◄► button to adjust the A/D sampling dot.
Auto Image	Press ↵ (Enter) / ► to automatically adjustment for phase, tracking, size and position.

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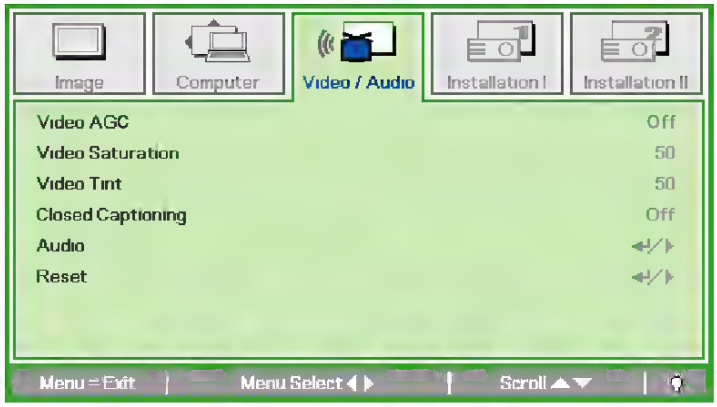
Video Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Video** menu. Press the cursor ▲▼ button to move up and down in the **Video** menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Video AGC	Press the ◄► buttons to enable or disable the Automatic Gain Control for video source.
Video Saturation	Press the ◄► buttons to adjust the video saturation.
Video Tint	Press the ◄► buttons to adjust the video tint/hue.
Closed Captioning	Press the ◄► buttons to enable or disable closed captioning.
Audio	Press ↵ (Enter) / ► to enter the Audio menu. See *Audio* on page 32.
Reset	Press ↵ (Enter) / ► to reset all settings to default values.

Note:
Video jagging may occur when playing interlace video. To overcome this issue, open the Video menu and adjust the Film Mode feature.

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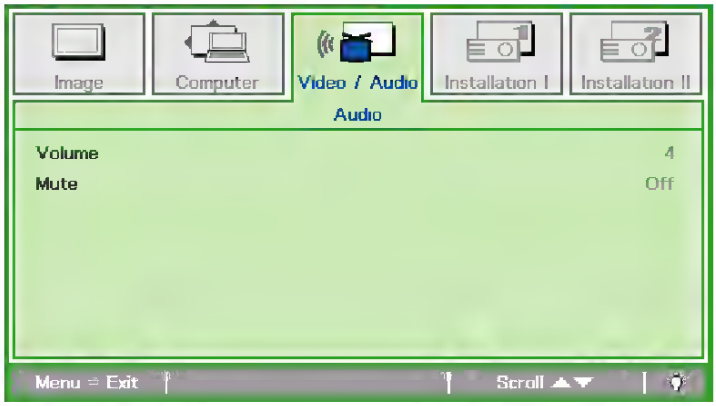
Audio

Press ↵ (Enter) / ► to enter the **Audio** sub menu.



ITEM	DESCRIPTION
Volume	Press the ◄► buttons to enter and adjust the audio volume.
Mute	Press the ◄► buttons to enter and turn on or off the speaker.

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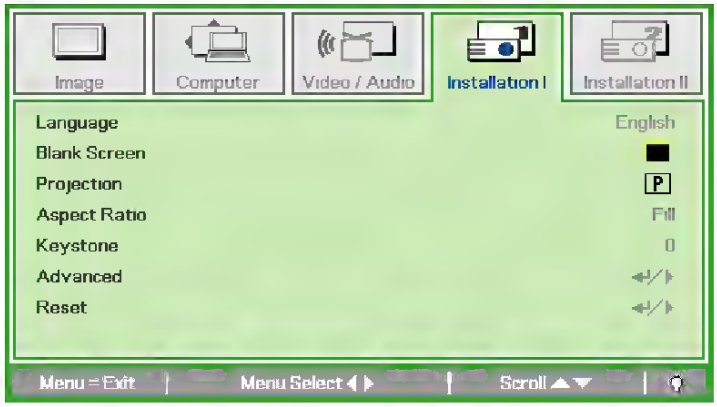
Installation I Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Installation I** menu. Press the cursor ▲▼ button to move up and down in the **Installation I** menu. Press ◄► to change values for settings.



ITEM	DESCRIPTION
Language	Press the cursor ◄► button to select a different localization Menu.
Blank Screen	Press the cursor ◄► button to select different color to blank the screen.
Projection	Press the cursor ◄► button to select different projection.
Aspect Ratio	Press the cursor ◄► button to adjust the video aspect ratio.
Keystone	Press the cursor ◄► button to adjust the display keystone.
Advanced	Press ↵ (Enter) / ► to the Advanced menu. See *Advanced Feature* on page 34.
Reset	Press ↵ (Enter) / ► to reset all settings to default values (except Language).

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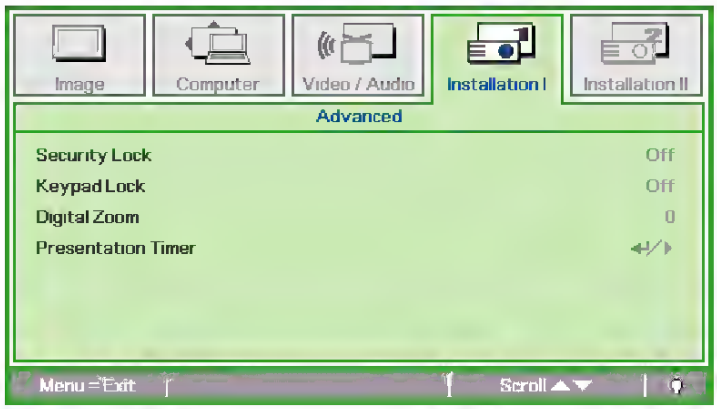
Advanced Feature

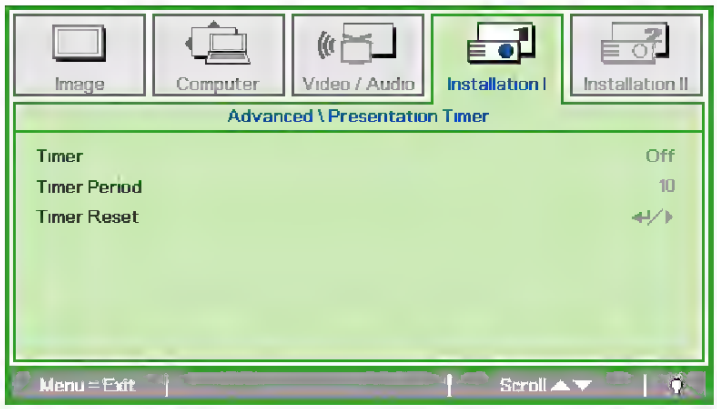
Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Installation I** menu. Press ▲▼ to move to the **Advanced** menu and then press ↵ (Enter) or ►. Press ▲▼ to move up and down in the **Advanced** menu. Press ◄► to change values for setting.



ITEM	DESCRIPTION
Security Lock	Press the cursor ◄► button to enable or disable security lock function.
Keypad Lock	Press the cursor ◄► button to enable or disable Keypad Lock function.
Digital Zoom	Press the cursor ◄► button to adjust the Digital Zoom menu.
Presentation Timer	Press ↵ (Enter) / ► to go to the Presentation Timer Menu. See *Presentation Timer* below.

Presentation Timer

The Presentation Timer function can indicate the presentation time on the screen to help you achieve better time management when giving presentations.



ITEM	DESCRIPTION
Timer	Press the cursor ◄► button to enable or disable presentation timer.
Timer Period	Press the cursor ◄► button to select Timer Period (1 ~ 60 minutes)
Timer Reset	Press ↵ (Enter) / ► to reset the timer settings.

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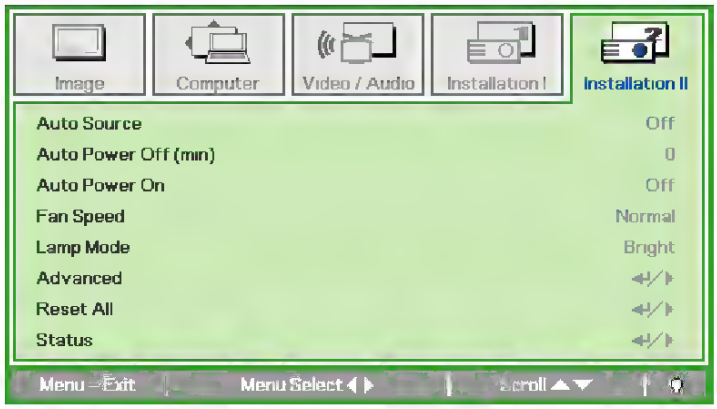
Installation II Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor ◄► button to move to the **Installation II** menu. Press the cursor ▲▼ button to move up and down in the Installation II menu.



ITEM	DESCRIPTION
Auto Source	Press the cursor ◄► button to enable or disable automatic source detection.
Auto Power Off (min.)	Press the cursor ◄► button to enable or disable automatic shutdown of lamp when no signal.
Auto Power On	Press the cursor ◄► button to enable or disable automatic power On when AC power is supplied.
Fan Speed	Press the cursor ◄► button to toggle between Normal and High fan speeds. **Note:** Recommend selecting high speed when the altitude of the environment is higher than 1500m (4921ft)
Lamp Mode	Press the cursor ◄► button to select the lamp mode for higher brightness or lower brightness to save lamp life.
Advanced	Press ↵ (Enter) / ► to enter the Advanced menu. See *Advanced Feature* on page 36.
Reset All	Press ↵ (Enter) / ► to reset all items to factory preset values.
Status	Press ↵ (Enter) / ► to enter the Status menu. See page 48 for more information on *Status*.

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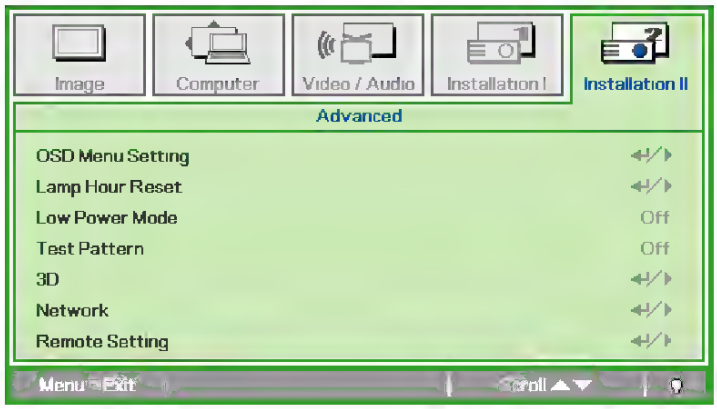
Advanced Feature

Press the **Menu** button to open the **OSD** menu. Press ◄► to move to the **Installation II** menu. Press ▲▼ to move to the **Advanced** menu and then press ↵ (Enter) or ►. Press ▲▼ to move up and down in the **Advanced** menu. Press ◄► to change values for setting.



ITEM	DESCRIPTION
OSD Menu Setting	Press ↵ (Enter) / ► to enter the OSD setting menu. See page 37 for more information on *OSD Menu Setting*.
Lamp Hour Reset	After replacing the lamp, this item should be reset. See page 38 for more information on *Lamp Hour Reset*
Low Power Mode	Press the cursor ◄► button to turn Low Power Mode On, Off or On By Lan.
Test Pattern	Press the cursor ◄► button to enter and select internal test pattern.
3D	Press ↵ (Enter) / ► to enter the 3D menu. See page 38 for more information on *3D* settings.
Network	Press ↵ (Enter) / ► to enter the Network menu. See page 39 for more information on *Network*.
Remote Setting	Press ↵ (Enter) / ► to enter the Remote Setting menu. See page 48 for more information on *Remote Setting*.

Note:
*About "**On By Lan**", RJ45 will support to be waked up in this mode(Under 2W) but scalar won't.*

Note:
To enjoy the 3D function, first enable the Play Movie in 3D setting found in your DVD device under the 3D Disc Menu.

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OSD Menu Setting

ITEM	DESCRIPTION
Menu Position	Press ◄► button to select different OSD location.
Translucent Menu	Press ◄► button to select OSD background translucent level.
Menu Display	Press ◄► button to select OSD timeout delay.

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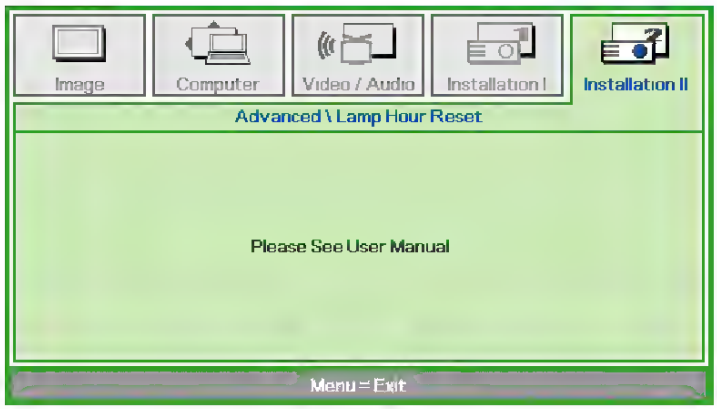
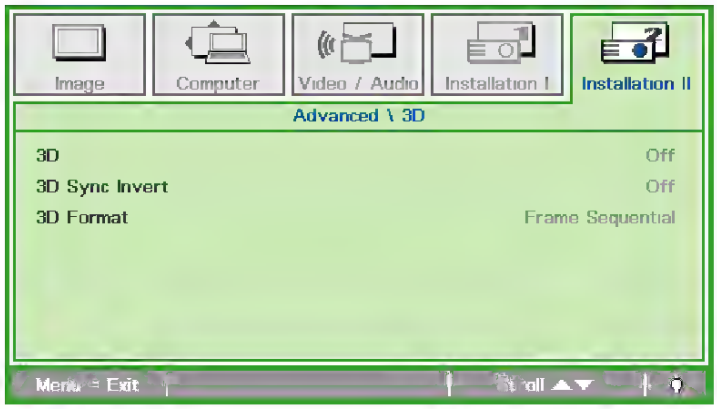
Lamp Hour Reset



Please refer to *Resetting the Lamp* on page 52 to reset the lamp hour counter.

3D



ITEM	DESCRIPTION
3D	Press ◄► to select Off, DLP-Link or IR.
3D Sync Invert	Press ◄► to turn 3D Sync Invert On or Off.
3D Format	Press ◄► to enable or disable 3D Format.

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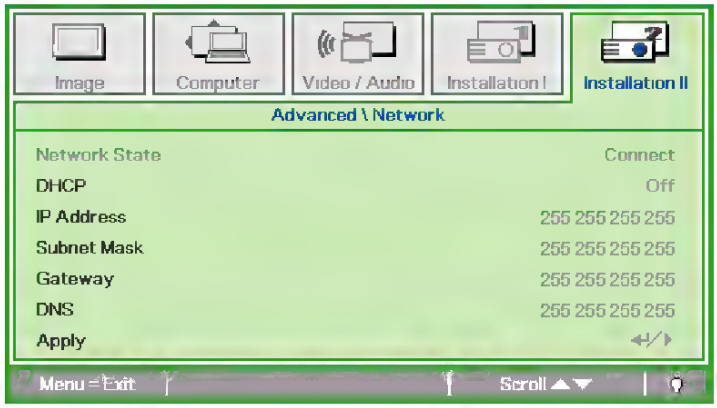
Network



ITEM	DESCRIPTION
Network State	Displays the network connection status.
DHCP	Press ◄► to turn DHCP On or Off **Note:** If you select DHCP Off, complete the IP Address, Subnet Mask, Gateway, and DNS fields.
IP Address	Enter a valid IP address if DHCP is turned off.
Subnet Mask	Enter a valid Subnet Mask if DHCP is turned off.
Gateway	Enter a valid Gateway address if DHCP is turned off.
DNS	Enter a valid DNS name if DHCP is turned off.
Apply	Press ↵ (Enter) / ► to confirm settings.

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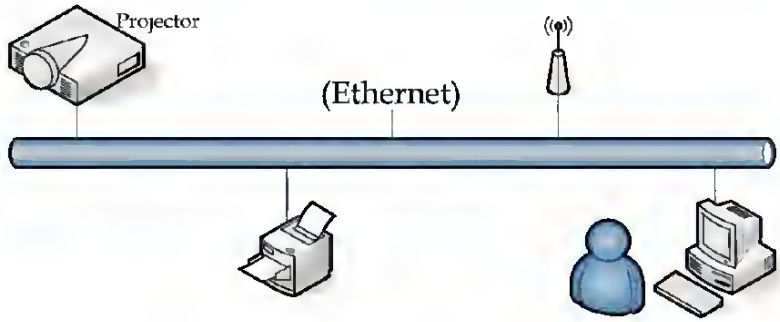
For simplicity and ease of operation, the projector provides diverse networking and remote management features.

The LAN/RJ45 function of the projector through a network, such as remotely manage: Power On/Off, Brightness and Contrast settings. Also, projector status information, such as: Video-Source, Sound-Mute, etc.



The projector can be controlled by a PC (Laptop) or other external device with connecting to the projector's LAN/RJ45 port.

Wired LAN Terminal functionalites

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron / AMX (Device Discovery) / Extron control boxes enables not only collective projector management on a network but also management from a control panel on a PC (or Laptop) browser screen.

* Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.

* Extron is a registered trademark of Extron Electronics, Inc. of the United States.

* AMX is a registered trademark of AMX LLC of the United States.

Supported External Devices

This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®).

http://www.crestron.com/

This projector is supported by AMX (Device Discovery).

http://www.amx.com/

This projector is compliant to support Extron device(s) for reference.

http://www.extron.com/

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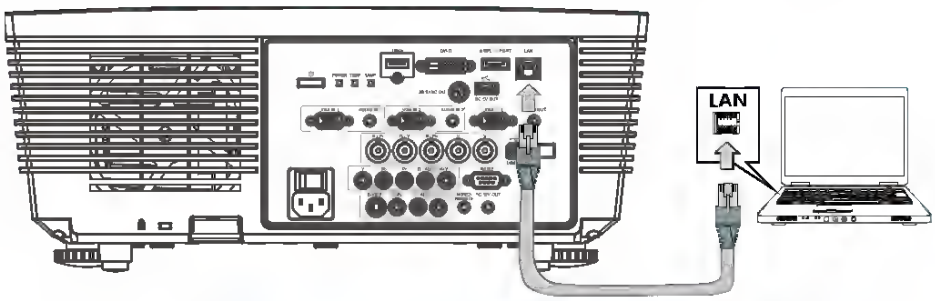
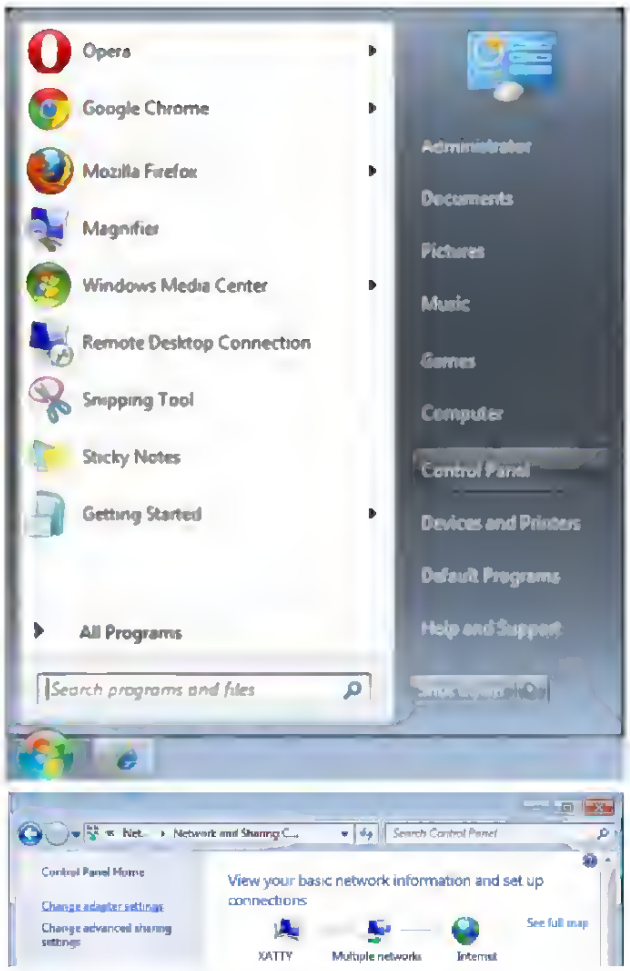
LAN RJ45

1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (Laptop).



2. On the PC (Laptop), select **Start → Control Panel → Network and Internet**.



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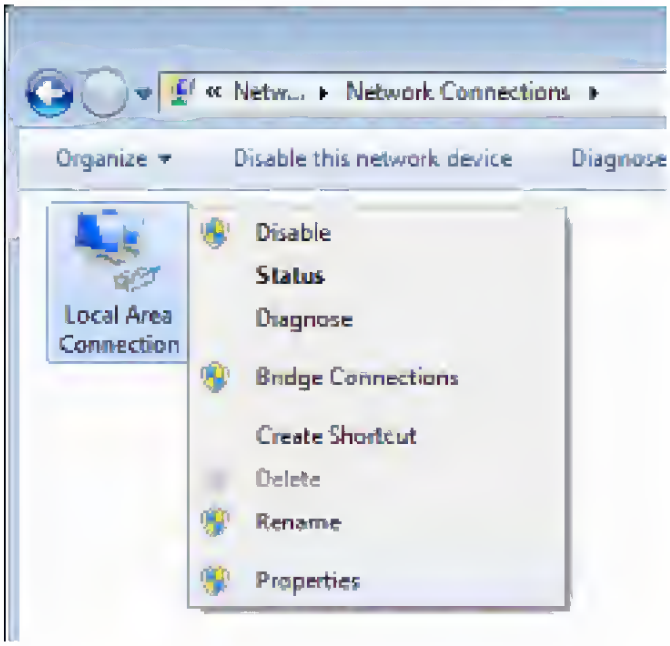
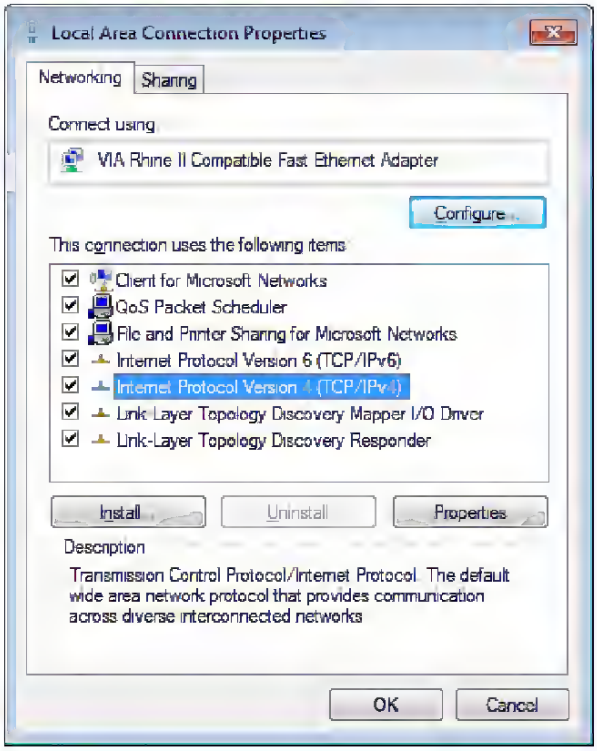
3. Right-click on **Local Area Connection**, and select **Properties**.



4. In the **Properties** window, select the **Networking** tab, and select **Internet Protocol (TCP/IP)**.
5. Click **Properties**.



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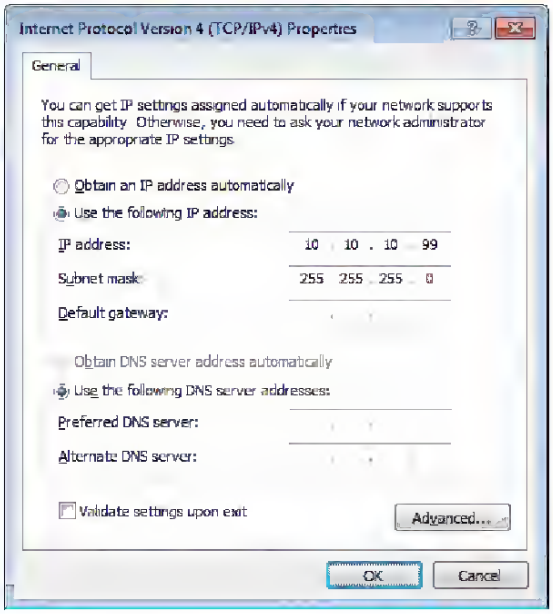
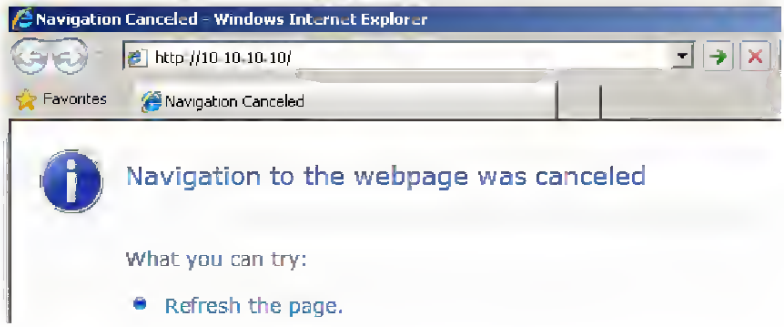
6. Click **Use the following IP address** and fill in the IP address and Subnet mask, then click **OK**.


Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 10 . 10 . 10 . 99
Subnet mask: 255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

7. Press the **Menu** button.
8. Select **Installation II → Advanced → Network → Network State → Connect**
9. After getting into **Network**, input the following:
   - DHCP: Off
   - IP Address: 10. 10. 10. 10
   - Subnet Mask: 255.255.255.0
   - Gateway: 0.0.0.0
   - DNS Server: 0.0.0.0
10. Press ↵ (Enter) / ► to confirm settings.
11. Open a web browser (for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).



12. In the Address bar, input the IP address: 10. 10. 10. 10.
13. Press ↵ (Enter) / ►.

    The projector is setup for remote management. The LAN/RJ45 function displays as follows.

    Based on network web-page for the input-string in **tools** tab, the limitation for Input-Length is in the below list ("space" and the other punctuation key included):

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CATEGORY	ITEM	INPUT-LENGTH
Crestron Control	IP Address	15
	IP ID	3
	Port	5
Projector	Projector Name	10
	Location	10
	Assigned To	10
Network Configuration	DHCP (Enabled)	(N/A)
	IP Address	15
	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
User Password	Enabled	(N/A)
	New Password	10
	Confirm	10
Admin Password	Enabled	(N/A)
	New Password	10
	Confirm	10

For more information, please visit http://www.crestron.com/.

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RS232 by Telnet Function

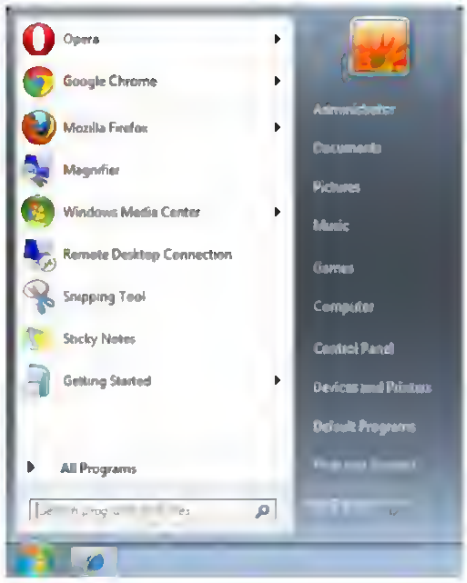
Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface

Quick Start-Guide for "RS232 by TELNET"

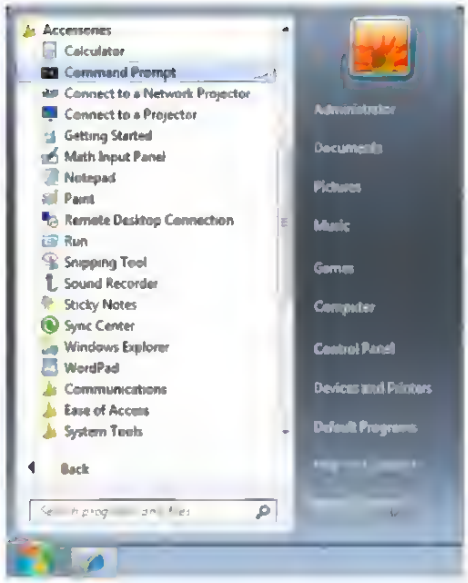
Check and get the IP-Address on OSD of the projector.

Make sure that laptop/PC can access the web-page of the projector.

Make sure that "Windows Firewall" setting to be disabled in case of "TELNET" function filtering out by laptop/PC.



Start => All Programs => Accessories => Command Prompt



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Input the command format like the below:

telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

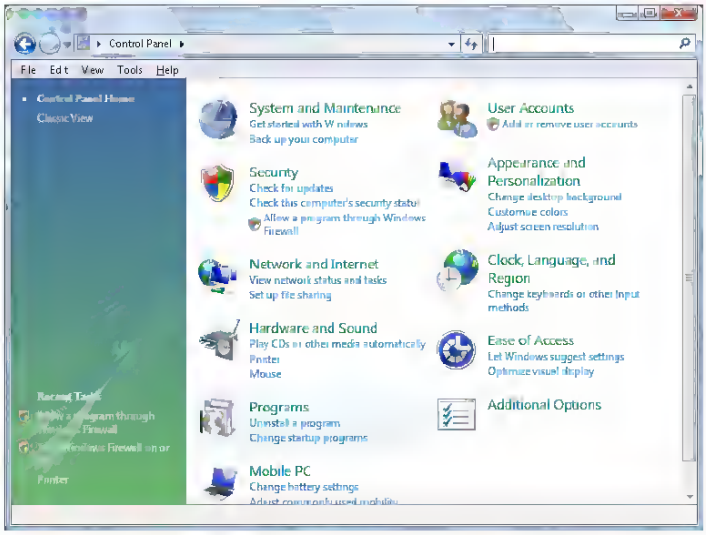
(**ttt.xxx.yyy.zzz**: IP-Address of the projector)

If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

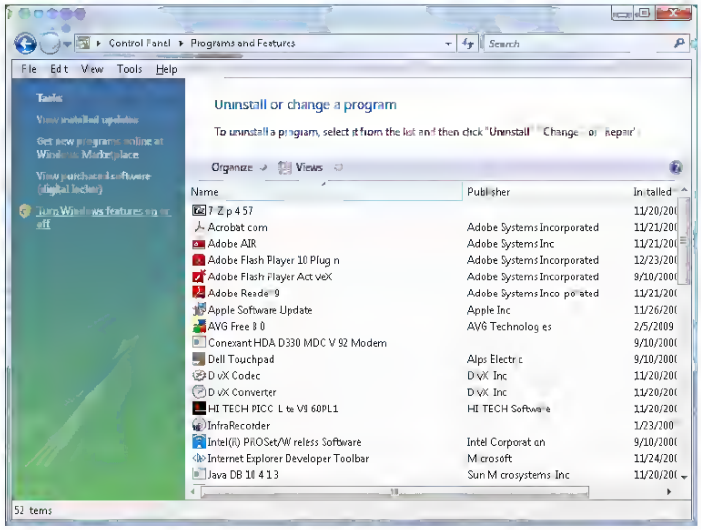
How to have TELNET enabled in Windows VISTA / 7 / 8

By default installation for Windows VISTA / 7 / 8, "TELNET" function is not included. But end-user can have it by way of "Turn Windows features On or Off" to be enabled.

Open "Control Panel" in Windows VISTA / 7 / 8



Open "Programs"



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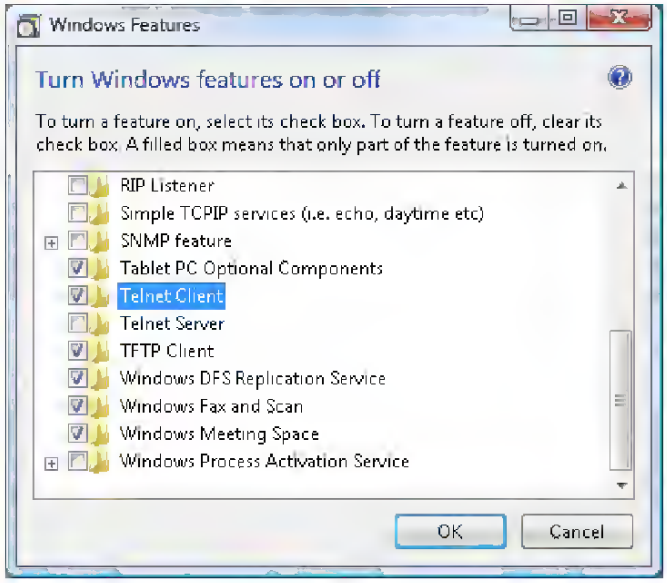
Select "Turn Windows features on or off" to open


Windows Features
Turn Windows features on or off
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.
RIP Listener
Simple TCPIP services (i.e. echo, daytime etc)
SNMP feature
Tablet PC Optional Components
Telnet Client
Telnet Server
TFTP Client
Windows DFS Replication Service
Windows Fax and Scan
Windows Meeting Space
Windows Process Activation Service
OK
Cancel

Have "Telnet Client" option checked, then press "OK" button

Specsheet for "RS232 by TELNET" :

1. Telnet: TCP
2. Telnet port: 23
3. Telnet utility Windows "TELNET exe" (console mode)
4. Disconnection for RS232-by-Telnet control normally: Close Windows Telnet utility directly after TELNET connection ready
5. Limitation 1 for Telnet-Control: there is only one connection for Telnet-Control in one projector

   Limitation 2 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.

   Limitation 3 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.

   Limitation 4 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

   (* In Windows built-in "TELNET exe" utility, "Enter" key pressed will have "Carriage-Return" and "New-Line" code)

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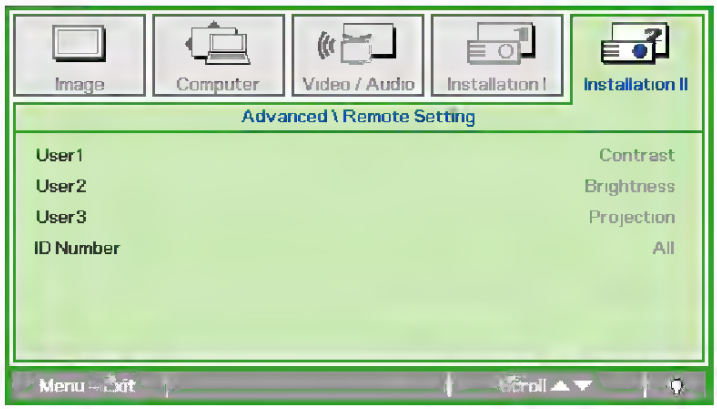
Remote Setting



ITEM	DESCRIPTION
User 1	Press ◄► button to select special hot key for USER1 on IR.
User 2	Press ◄► button to select special hot key for USER2 on IR.
User 3	Press ◄► button to select special hot key for USER3 on IR.
ID Number	Press ◄► button to select ID number for responsible IR that you want to control.

Status

Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Select the **Status** sub menu and press ↵ (Enter) / ► to enter the **Status** sub menu.

ITEM	DESCRIPTION
Active Source	Display the activated source.
Video Information	Displays resolution/video information for RGB source and color standard for Video source.
Lamp Hours (Normal, Bright)	Lamp Time used information is displayed.
Software Version	Showing system Software version.
S/N	Showing serial number of this projector.

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MAINTENANCE AND SECURITY

Replacing the Projection Lamp

The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

Important:

a. The projection lamp used in this product contains a small amount of mercury.

b. *Do not dispose this product with general household waste.*

c. *Disposal of this product must be carried out in accordance with the regulations of your local authority.*

Warning:

Be sure to turn off and unplug the projector at least 30 minutes before replacing the lamp. Failure to do so could result in a severe burn.

Caution:

In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.

Do not inhale or do not touch glass dust or shards. Doing so could result in injury.

Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.

When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.

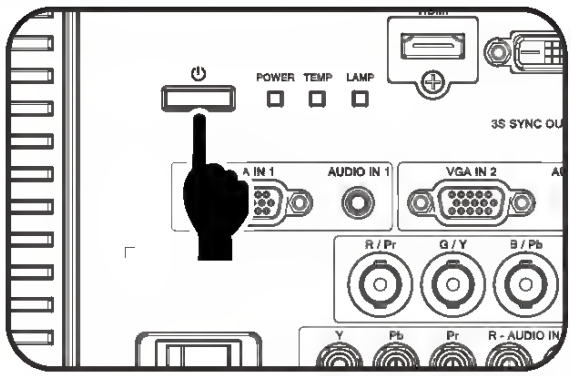
IF A LAMP EXPLODES

If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.

Open windows and doors for ventilation.

If you inhale the gas or the shards of the broken lamp enter your eyes or mouth, consult the doctor immediately.

1. Switch off the power to the projector by pressing the POWER button.
2. Allow the projector to cool down at least 30 minutes.
3. Disconnect the power cord.



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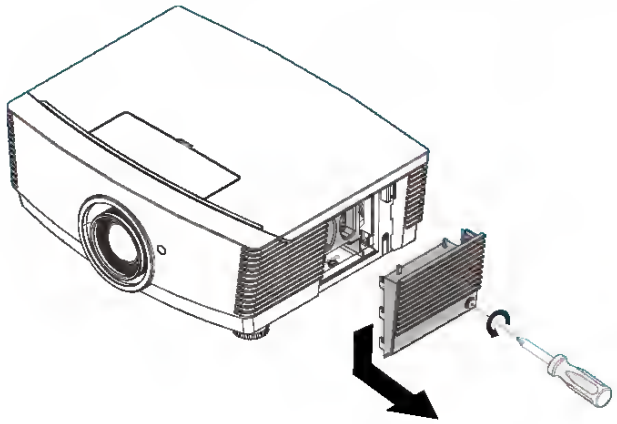
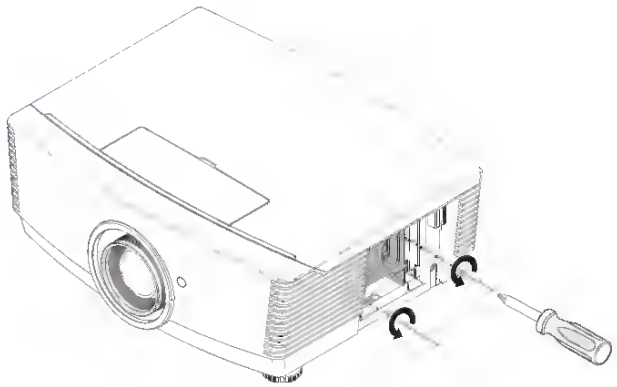
4. Unlock the lamp cover.

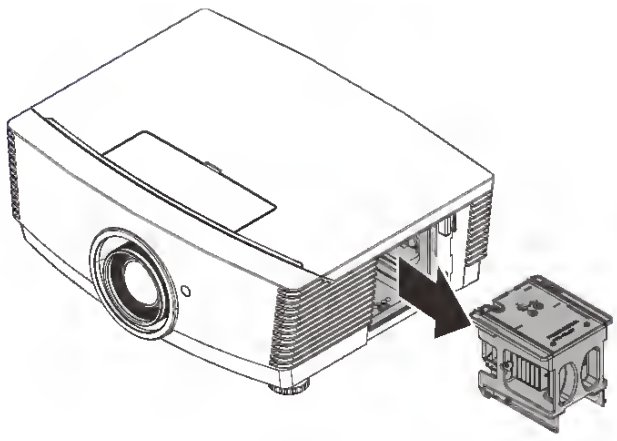
5. Pull up and remove the cover.



6. Use a screwdriver to remove the screws from the lamp module.



7. Pull out the lamp module.



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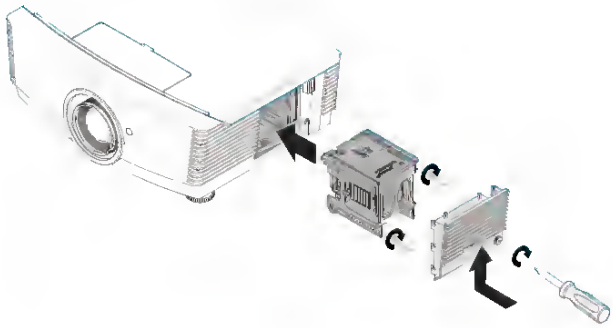
8. Reverse steps 1 to 7 to install the new lamp module. While installing, align the lamp module with the connector and ensure it is level to avoid damage.

> ***Note:***
> *The lamp module must sit securely in place and the lamp connector must be connected properly before tightening the screws.*



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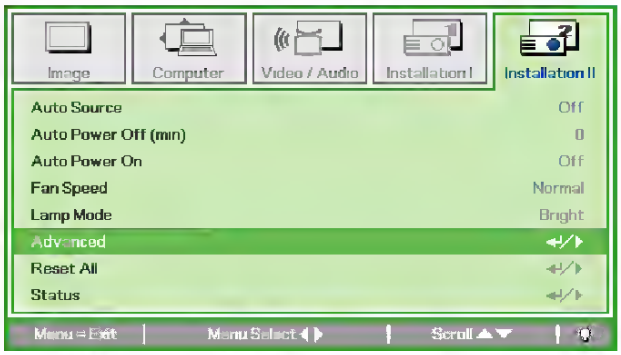
Resetting the Lamp Time

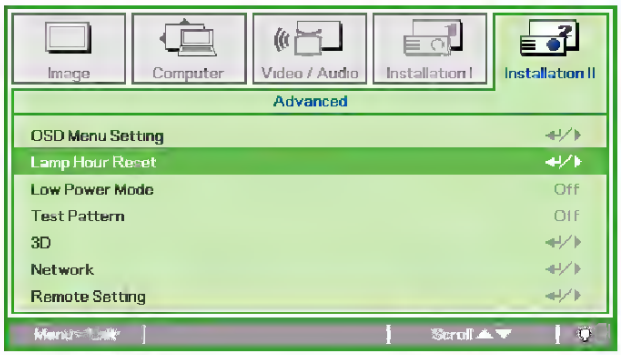
After replacing the lamp, you should reset the lamp hour counter to zero. Refer to the following:

1. Press the **MENU** button to open the OSD menu.

2. Press the cursor ◄► button to move to the **Installation II** menu. Press the cursor button to move down to **Advanced**.



3. Press the cursor ▼▲ button to move down to **Reset Lamp Time**.

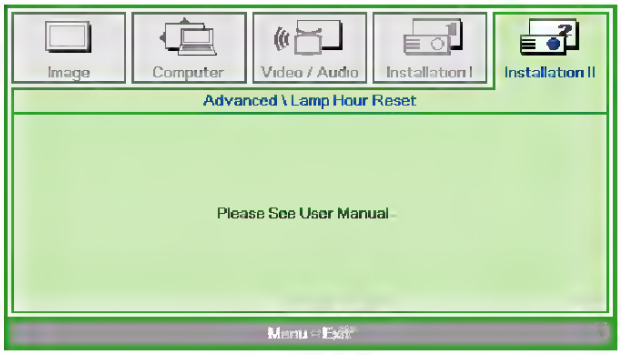


4. Press the cursor ► or Enter button.

A message screen appears.

5. Press ▼▲◄► buttons to reset the lamp hour.

6. Press the **MENU** button to get back to Installation II.



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Cleaning the Projector

Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

> ***Warning:***
> ***1.*** *Be sure to turn off and unplug the projector at least 30 minutes before cleaning. Failure to do so could result in a severe burn.*
>
> ***2.*** *Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.*
>
> ***3.*** *If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.*
>
> ***4.*** *If a lot of water gets into the projector interior when cleaning, have the projector serviced.*

Cleaning the Lens

You can purchase optic lens cleaner from most camera stores. Refer to the following to clean the projector lens.

1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
2. Lightly wipe the lens in a circular motion.

> ***Caution:***
> ***1.*** *Do not use abrasive cleaners or solvents.*
>
> ***2.*** *To prevent discoloration or fading, avoid getting cleaner on the projector case.*

Cleaning the Case

Refer to the following to clean the projector case.

1. Wipe off dust with a clean dampened cloth.
2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
3. Rinse all detergent from the cloth and wipe the projector again.

> ***Caution:***
> *To prevent discoloration or fading of the case, do not use abrasive alcohol-based cleaners.*

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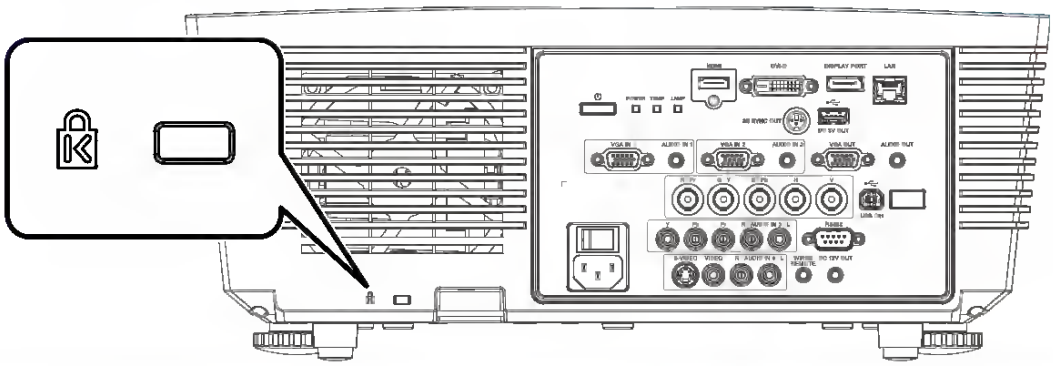
Using the Physical Lock

Using the Kensington Security Slot

If you are concerned about security, attach the projector to a permanent object with the Kensington slot and a security cable.



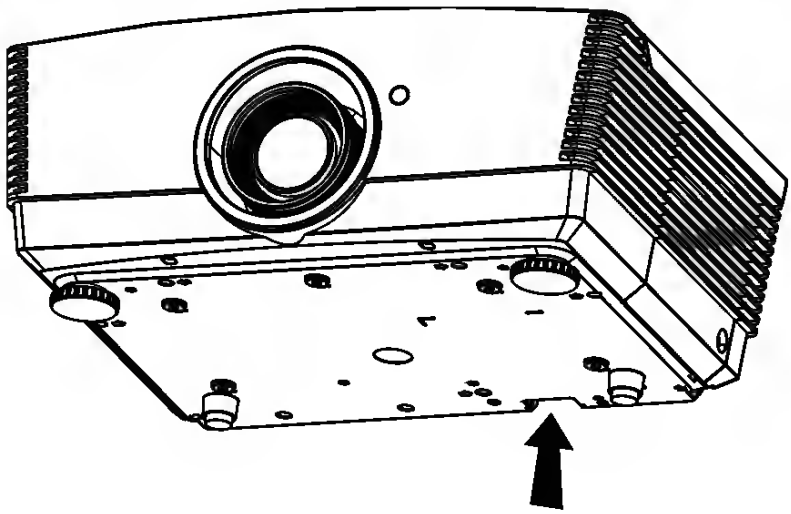
Note:
Contact your vendor for details on purchasing a suitable Kensington security cable.

The security lock corresponds to Kensington's MicroSaver Security System. If you have any comment, contact: Kensington, 2853 Campus Drive, San Mateo, CA 94403, U.S.A. Tel: 800-535-4242, http://www.Kensington.com.

Using the Security Chain Lock

In addition to the password protection function and the Kensington lock, the Security Chain Opening helps protect the PROJECTOR from unauthorized use.

See the following picture.



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TROUBLESHOOTING

Common problems and solutions

These guidelines provide tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- *Use some other electrical device to confirm that the electrical outlet is working.*
- *Ensure the projector is turned on.*
- *Ensure all connections are securely attached.*
- *Ensure the attached device is turned on.*
- *Ensure a connected PC is not in suspending mode.*
- *Ensure a connected notebook computer is configured for an external display. (This is usually done by pressing an Fn-key combination on the notebook.)*

Tips for Troubleshooting

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts.
For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting: The information may be useful when calling for technical support or for passing on to service personnel.

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LED Error Messages

Error Code Messages	Power LED		Temp LED	Lamp LED
	Red	Green	Red	Red
Ready to Power on (Standby)	ON	–	OFF	OFF
System Power on	Flash	–	OFF	OFF
Lamp Lit , System stable	–	ON	OFF	OFF
Lamp Retry	–	Flash	OFF	OFF
Cooling	Flash	–	OFF	OFF
Over Temperature	–	ON	OFF	ON
Thermal Break Sensor error	Flash	–	ON	OFF
Lamp Fail	–	ON	OFF	ON
Fan-1 error	–	ON	Flash	–
Case Open	Flash	–	ON	ON
Color wheel error	–	ON	OFF	Flash
Firmware Download	ON	–	ON	ON

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before restarting the projector. If any other situation didn't listed in the chart above, please contact your service center.

Image Problems

Problem: No image appears on the screen

1. Verify the settings on your notebook or desktop PC.
2. Turn off all equipment and power up again in the correct order.

Problem: The image is blurred

1. Adjust the **Focus** on the projector.
2. Ensure the projector-to-screen distance is within the specified range.
3. Check that the projector lens is clean.

Problem: The image is wider at the top or bottom (trapezoid effect)

1. Position the projector so it is as perpendicular to the screen as possible.
2. Use the **Keystone** button on the remote control to correct the problem.

Problem: The image is reversed

Check the **Projection** setting on the **Installation I** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracking** settings on the **Computer** menu of the OSD to the default settings.
2. To ensure the problem is not caused by a connected PC's video card, connect to another computer.

Problem: The image is flat with no contrast

Adjust the **Contrast** setting on the **Image** menu of the OSD.

Problem: The color of the projected image does not match the source image.

Adjust the **Color Temperature** and **Gamma** settings on the **Image** menu of the OSD.

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Lamp Problems

Problem: There is no light from the projector

1. Check that the power cable is securely connected.
2. Ensure the power source is good by testing with another electrical device.
3. Restart the projector in the correct order and check that the Power LED is on.
4. If you have replaced the lamp recently, try resetting the lamp connections.
5. Replace the lamp module.
6. Put the old lamp back in the projector and have the projector serviced.

Problem: The lamp goes off

1. Power surges can cause the lamp to turn off. Re-plug power cord. When the Power LED is on, press the power button.
2. Replace the lamp module.
3. Put the old lamp back in the projector and have the projector serviced.

Remote Control Problems

Problem: The projector does not respond to the remote control

1. Direct the remote control towards remote sensor on the projector.
2. Ensure the path between remote and sensor is not obstructed.
3. Turn off any fluorescent lights in the room.
4. Check the battery polarity.
5. Replace the battery.
6. Turn off other Infrared-enabled devices in the vicinity.
7. Have the remote control serviced.

Audio Problems

Problem: There is no sound

1. Adjust the volume of the audio source.
2. Check the audio cable connection.
3. Test the source audio output with other speakers.
4. Have the projector serviced.

Problem: The sound is distorted

1. Check the audio cable connection.
2. Test the source audio output with other speakers.
3. Have the projector serviced.

Having the Projector Serviced

If you are unable to solve the problem, you should have the projector serviced. Pack the projector in the original carton. Include a description of the problem and a checklist of the steps you took when trying to fix the problem: The information may be useful to service personnel. For servicing, return the projector to the place you purchased it.

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HDMI Q & A

Q. What is the difference between a "Standard" HDMI cable and a "High-Speed" HDMI cable?

Recently, HDMI Licensing, LLC announced that cables would be tested as Standard or High-Speed cables.

Standard (or "category 1") HDMI cables have been tested to perform at speeds of 75Mhz or up to 2.25Gbps, which is the equivalent of a 720p/1080i signal.

High Speed (or "category 2") HDMI cables have been tested to perform at speeds of 340Mhz or up to 10.2Gbps, which is the highest bandwidth currently available over an HDMI cable and can successfully handle 1080p signals including those at increased color depths and/or increased refresh rates from the Source. High-Speed cables are also able to accommodate higher resolution displays, such as WQXGA cinema monitors (resolution of 2560 x 1600).

Q. How do I run HDMI cables longer than 10 meters?

There are many HDMI Adopters working on HDMI solutions that extend a cable's effective distance from the typical 10 meter range to much longer lengths. These companies manufacture a variety of solutions that include active cables (active electronics built into cables that boost and extend the cable's signal), repeaters, amplifiers as well as CAT5/6 and fiber solutions

Q. How can I tell if a cable is an HDMI certified cable?

All HDMI products are required to be certified by the manufacturer as part of the HDMI Compliance Test Specification. However, there may be instances where cables bearing the HDMI logo are available but have not been properly tested. HDMI Licensing, LLC actively investigates these instances to ensure that the HDMI trademark is properly used in the market. We recommend that consumers buy their cables from a reputable source and a company that is trusted.

For more detail information check http://www.hdmi.org/learningcenter/faq.aspx#49

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SPECIFICATIONS

Specifications

Model	F7200
Display Type	0.7" XGA DC3
Resolution	1024x768
Projection Distance	1.5 meters ~ 7 meters
Projection Screen Size	36.9" ~ 215.3"
Projection Lens	Manual Focus/Manual Zoom
Throw Ratio	1.6 ~ 2.0
Vertical Keystone Correction	±40°
Projection Methods	Front, Rear, Desktop/Ceiling (Rear, Front)
Data Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA@60hz, Mac
Sdtv/Edtv/ Hdtv	480i, 576i, 480p, 576p, 720p, 1080i, 1080p
Video Compatibility	NTSC (M, 3.58/4.43 MHz), PAL (B, D, G, H, I, M, N), SECAM (B, D, G, K, K1, L)
H-Sync	15, 31-91.4kHz
V-Sync	24~30Hz, 47 ~ 120Hz
Safety Certification	FCC-B, cUL, UL, CE, CCC, CB, CECP
Operation Temperature	5° ~ 40°C
Dimensions	433.2mm (W) x 348mm (D) x 178.2mm (H)
Ac Input	AC Universal 100 – 240V
Power Consumption	370W (Normal), 480W(Bright), <0.5watts(Stand By), <2W (on by LAN)
Lamp	280W (Normal), 370W(Bright)
Audio Speaker	3W x 2
Input Terminals	VGA x 2
	DisplayPort x 1
	DVI-D x 1
	S-Video x 1
	5 BNC (RGBHV) x 1
	Component x 1
	Composite video x 1
	HDMI x 1
	RCA stereo x 2
	Mini-jack stereo x 2
Output Terminals	VGA x 1
	PC audio out x 1
Control Terminals	RS-232C
	RJ45
	Screen trigger: DC Jack x 1 (DC12V 200mA output function)
	wire remote
	USB (type B) only for service/mouse control
	USB (type A) only for power supply; WHDI
	3D sync
Security	Kensington Security Slot

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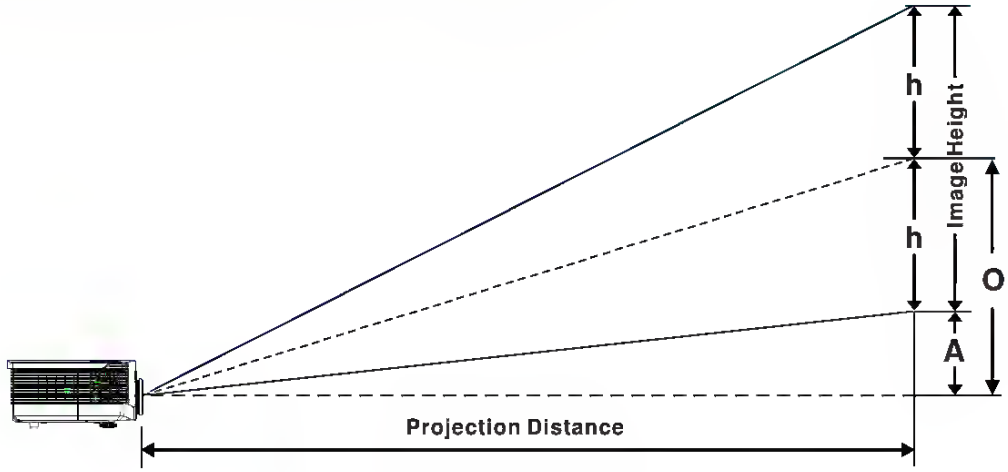
Projection Distance vs. Projection Size (XGA)



Projection Distance and Size Table

Standard projection lens: TR: 1.6 ~ 2; offset=50%

	TELE				WIDE			
Distance (m)	1.50	3.25	4.06	8.13	1.63	3.25	6.50	9.75
Diagonal (")	36.9	80	100	200	50	100	200	300(*)
Image Width (mm)	750	1626	2032	4064	1016	2032	4064	6096
Image Height (mm)	562	1219	1524	3048	762	1524	3048	4572
h (mm)	281	610	762	1524	381	762	1524	2286
O (mm)	281	610	762	1524	381	762	1524	2286
A (mm)	0	0	0	0	0	0	0	0

Note:
(*) Overdrive.

Long throw projection lens: TR: 2~ 3; offset=50%

	TELE				WIDE			
Distance (m)	2.00	6.10	12.19	20.00	2.03	6.10	12.19	20.00
Diagonal (")	32.8	100	200	328.1	50	150	300	492.1
Image Width (mm)	666	2032	4064	6667	1016	3048	6096	9999
Image Height (mm)	500	1524	3048	5000	762	2286	4572	7500
h (mm)	250	762	1524	2500	381	1143	2286	3750
O (mm)	250	762	1524	2500	381	1143	2286	3750
A (mm)	0	0	0	0	0	0	0	0

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New Short throw projection lens: TR: 0.81; offset=50%

	Fix						
Distance (m)	0.80	1.32	1.65	2.47	3.29	4.11	5.00
Diagonal (")	48.6	80	100	150	200	250	303.7
Image Width (mm)	988	1626	2032	3048	4064	5080	6171
Image Height (mm)	741	1219	1524	2286	3048	3810	4628
h (mm)	370	610	762	1143	1524	1905	2314
O (mm)	370	610	762	1143	1524	1905	2314
A (mm)	0	0	0	0	0	0	0

Semi Short throw projection lens: TR: 1.14 ~ 1.34; offset=50%

	Tele				Wide			
Distance (m)	1.00	2.74	5.47	9.00	1.16	3.47	6.95	9.00
Diagonal (")	36.6	100	200	328.8	50	150	300	388.6
Image Width (mm)	744	2032	4064	6681	1016	3048	6096	7896
Image Height (mm)	558	1524	3048	5011	762	2286	4572	5922
h (mm)	279	762	1524	2505	381	1143	2286	2961
O (mm)	279	762	1524	2505	381	1143	2286	2961
A (mm)	0	0	0	0	0	0	0	0

Super Long throw projection lens: TR: 3.11 ~ 5.18; offset=50%

	Tele				Wide			
Distance (m)	3.00	10.53	15.79	20.00	3.16	6.32	12.64	20.00
Diagonal (")	28.5	100	150	190	50	100	200	316.5
Image Width (mm)	579	2032	3048	3861	1016	2032	4064	6431
Image Height (mm)	434	1524	2286	2896	762	1524	3048	4823
h (mm)	217	762	1143	1448	381	762	1524	2412
O (mm)	217	762	1143	1448	381	762	1524	2412
A (mm)	0	0	0	0	0	0	0	0

offset % = O/(2xh) × 100%
O=A+h
h=(1/2) × (image height)

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Timing Mode Table

Signal	Resolution	H-Sync (KHz)	V-Sync (Hz)	Composite S-Video	Component	RGB (Analog)	DP/DVI HDMI (Digital)
NTSC	–	15.7	60.0	○	–	–	–
PAL/SECAM	–	15.6	50.0	○	–	–	–
VESA	640 x 400	37.9	85.1	–	–	○	○
	720 x 400	31.5	70.1	–	–	○	○
	720 x 400	37.9	85.0	–	–	○	○
	640 x 480	31.5	60.0	–	–	○	○
	640 x 480	37.9	72.8	–	–	○	○
	640 x 480	37.5	75.0	–	–	○	○
	640 x 480	43.3	85.0	–	–	○	○
	800 x 600	35.2	56.3	–	–	○	○
	800 x 600	37.9	60.3	–	–	○	○
	800 x 600	46.9	75.0	–	–	○	○
	800 x 600	48.1	72.2	–	–	○	○
	800 x 600	53.7	85.1	–	–	○	○
	800 x 600	76.3	120.0	–	–	○	○
	1024 x 576	35.8	60.0	–	–	○	○
	1024 x 600	37.3	60.0	–	–	○	○
	1024 x 600	41.5	65.0	–	–	○	○
	1024 x 768	48.4	60.0	–	–	○	○
	1024 x 768	56.5	70.1	–	–	○	○
	1024 x 768	60.0	75.0	–	–	○	○
	1024 x 768	68.7	85.0	–	–	○	○
	1024 x 768	97.6	120.0	–	–	○	○
	1024 x 768	99.0	120.0	–	–	○	○
	1152 x 864	67.5	75.0	–	–	○	○
	1280 x 720	45.0	60.0	–	–	○	○
	1280 x 720	90.0	120.0	–	–	○	○
	1280 x 768	47.4	60.0	–	–	○	○
	1280 x 768	47.8	59.9	–	–	○	○
	1280 x 800	49.7	59.8	–	–	○	○
	1280 x 800	62.8	74.9	–	–	○	○
	1280 x 800	71.6	84.9	–	–	○	○
	1280 x 800	101.6	119.9	–	–	○	○
	1280 x 1024	64.0	60.0	–	–	○	○
	1280 x 1024	80.0	75.0	–	–	○	○
	1280 x 1024	91.1	85.0	–	–	○	○
	1280 x 960	60.0	60.0	–	–	○	○
	1280 x 960	85.9	85.0	–	–	○	○
	1360 x 768	47.7	60.0	–	–	○	○
	1400 x 1050	65.3	60.0	–	–	○	○
	1440 x 900	55.5	59.9	–	–	○	○
	1440 x 900	55.9	59.9	–	–	○	○
	1440 x 900	70.6	75.0	–	–	○	○
	1600 x1200	75.0	60.0	–	–	○	○

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Signal	Resolution	H-Sync (KHz)	V-Sync (Hz)	Composite S-Video	Component	RGB (Analog)	DP/DVI HDMI (Digital)
	1680 x 1050	64.7	59.9	—	—	o	o
	1680 x 1050	65.3	60.0	—	—	o	o
	1920 x 1200	74.0	60.0	—	—	o	o
	1920 x 1080	67.5	60.0	—	—	o	o
Apple Macintosh	640 x 480	35.0	66.7	—	—	o	o
	832 x 624	49.7	74.5	—	—	o	o
	1024 x 768	60.2	74.9	—	—	o	o
	1152 x 870	68.7	75.1	—	—	o	o
SDTV	480i	15.7	60.0	—	o	—	o
	576i	15.6	50.0	—	o	—	o
EDTV	576p	31.3	50.0	—	o	—	o
	480p	31.5	60.0	—	o	—	o
HDTV	720p	37.5	50.0	—	o	—	o
	720p	45.0	60.0	—	o	—	o
	1080i	33.8	60.0	—	o	—	o
	1080i	28.1	50.0	—	o	—	o
	1080p	27.0	24.0	—	o	—	o
	1080p	28.0	25.0	—	o	—	o
	1080p	33.7	30.0	—	o	—	o
	1080p	56.3	50.0	—	o	—	o
	1080p	67.5	60.0	—	o	—	o

O: Frequency supported

—: Frequency not supported

Resolution others than native resolution may be display with uneven size of text or line.

★ The color of mean Displayable only. (4:3 only)

★ The color of mean may have a little noise is acceptable, Because video mode sync don't auto adjustment.

★ HDTV timing main check tool is DVD player, VG828 is secondary.

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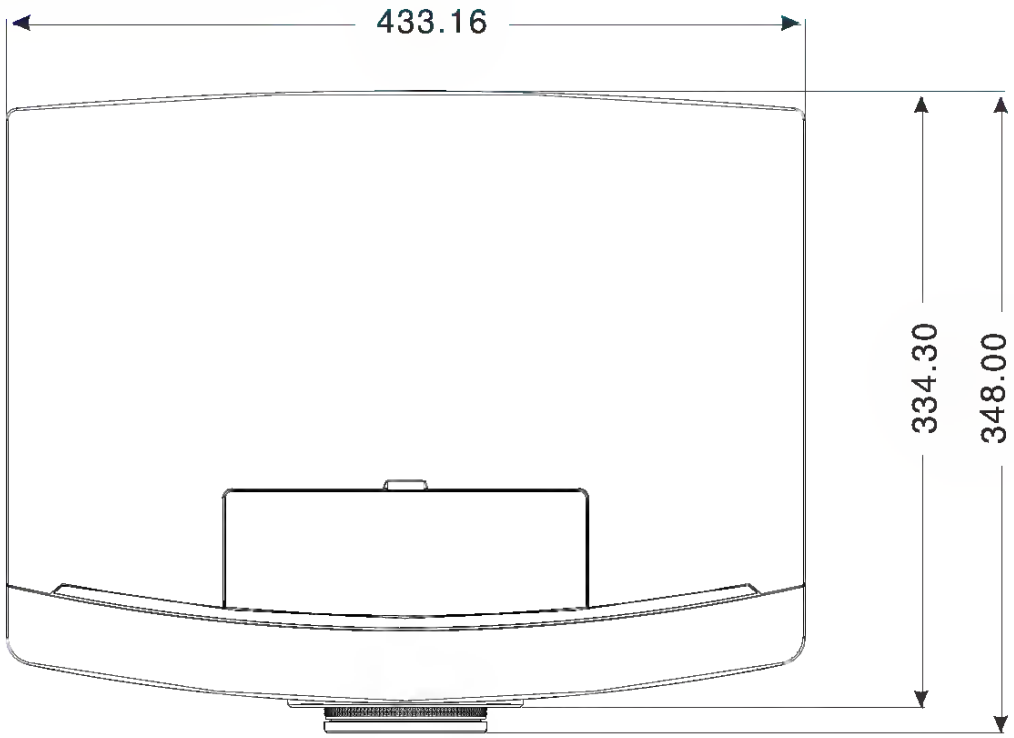
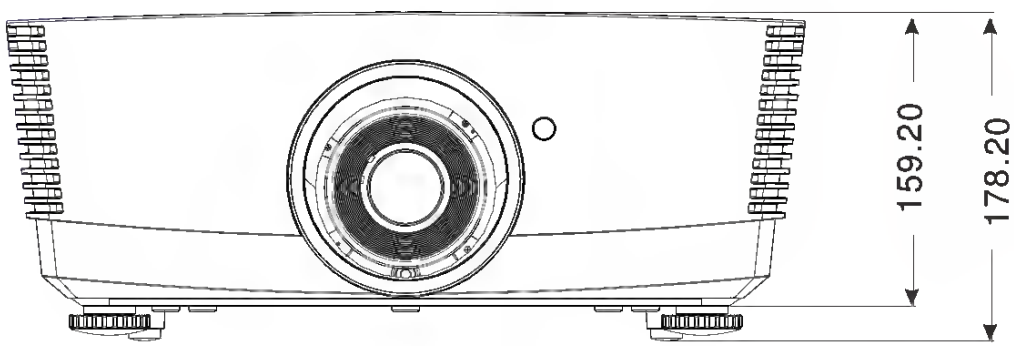
Projector Dimensions





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REGULATORY COMPLIANCE

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

Canada

This class B digital apparatus complies with Canadian ICES-003.

Safety Certifications

FCC-B, cUL, UL, CE, CCC, CB, CECP

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APPENDIX I

Function command summary table:

Supported baud rates	115200

No	Code (character)	Code (HEX)	Function feature
1	OKOKOKOKOK\r	4f 4b 4f 4b 4f 4b 4f 4b 4f 4b 0d	Power On
2	* 0 IR 001\r	2a 20 30 20 49 52 20 30 30 31 0d	Power On
3	* 0 IR 002\r	2a 20 30 20 49 52 20 30 30 32 0d	Power Off
4	* 0 IR 004\r	2a 20 30 20 49 52 20 30 30 34 0d	Keystone
5	* 0 IR 006\r	2a 20 30 20 49 52 20 30 30 36 0d	Mute
6	* 0 IR 007\r	2a 20 30 20 49 52 20 30 30 37 0d	Freeze
7	* 0 IR 008\r	2a 20 30 20 49 52 20 30 30 38 0d	Menu
8	* 0 IR 009\r	2a 20 30 20 49 52 20 30 30 39 0d	Up
9	* 0 IR 010\r	2a 20 30 20 49 52 20 30 31 30 0d	Down
10	* 0 IR 011\r	2a 20 30 20 49 52 20 30 31 31 0d	Right
11	* 0 IR 012\r	2a 20 30 20 49 52 20 30 31 32 0d	Left
12	* 0 IR 013\r	2a 20 30 20 49 52 20 30 31 33 0d	Enter
13	* 0 IR 014\r	2a 20 30 20 49 52 20 30 31 34 0d	Re-Sync
14	* 0 IR 015\r	2a 20 30 20 49 52 20 30 31 35 0d	Source Analog RGB for D-sub
15	* 0 IR 016\r	2a 20 30 20 49 52 20 30 31 36 0d	Source Digital RGB(DVI)
16	* 0 IR 017\r	2a 20 30 20 49 52 20 30 31 37 0d	Source PbPr for D-sub
17	* 0 IR 018\r	2a 20 30 20 49 52 20 30 31 38 0d	Source S-Video
18	* 0 IR 019\r	2a 20 30 20 49 52 20 30 31 39 0d	Source Composite Video
19	* 0 IR 020\r	2a 20 30 20 49 52 20 30 32 30 0d	Source Component Video
20	* 0 IR 021\r	2a 20 30 20 49 52 20 30 32 31 0d	Aspect ratio 16:9
21	* 0 IR 022\r	2a 20 30 20 49 52 20 30 32 32 0d	Aspect ratio 4:3
22	* 0 IR 023\r	2a 20 30 20 49 52 20 30 32 33 0d	Volume +
23	* 0 IR 024\r	2a 20 30 20 49 52 20 30 32 34 0d	Volume –
24	* 0 IR 025\r	2a 20 30 20 49 52 20 30 32 35 0d	Brightness
25	* 0 IR 026\r	2a 20 30 20 49 52 20 30 32 36 0d	Contrast
26	* 0 IR 027\r	2a 20 30 20 49 52 20 30 32 37 0d	Color Temperature
27	* 0 IR 028\r	2a 20 30 20 49 52 20 30 32 38 0d	Source Analog RGB for DVI Port(DVI-A)
28	* 0 IR 029\r	2a 20 30 20 49 52 20 30 32 39 0d	Source Analog YPbPr for DVI Port
29	* 0 IR 030\r	2a 20 30 20 49 52 20 30 33 30 0d	Hide
30	* 0 IR 031\r	2a 20 30 20 49 52 20 30 33 31 0d	Source
31	* 0 IR 032\r	2a 20 30 20 49 52 20 30 33 32 0d	Video: Color saturation adjustment
32	* 0 IR 033\r	2a 20 30 20 49 52 20 30 33 33 0d	Video: Hue adjustment
33	* 0 IR 034\r	2a 20 30 20 49 52 20 30 33 34 0d	Video: Sharpness adjustment
34	* 0 IR 035\r	2a 20 30 20 49 52 20 30 33 35 0d	Ouery Model name
35	* 0 IR 036\r	2a 20 30 20 49 52 20 30 33 36 0d	Ouery Native display resolution
36	* 0 IR 037\r	2a 20 30 20 49 52 20 30 33 37 0d	Ouery company name

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No	Code (character)	Code (HEX)	Function feature
37	* 0 IR 040\r	2a 20 30 20 49 52 20 30 34 30 0d	Aspect ratioL.Box
38	* 0 IR 041\r	2a 20 30 20 49 52 20 30 34 31 0d	Aspect ratio 1:1
39	* 0 IR 042\r	2a 20 30 20 49 52 20 30 34 32 0d	Keystone Up
40	* 0 IR 043\r	2a 20 30 20 49 52 20 30 34 33 0d	Keystone Down
41	* 0 IR 044\r	2a 20 30 20 49 52 20 30 34 34 0d	Keystone Left
42	* 0 IR 045\r	2a 20 30 20 49 52 20 30 34 35 0d	Keystone Right
43	* 0 IR 046\r	2a 20 30 20 49 52 20 30 34 36 0d	Zoom
44	* 0 IR 047\r	2a 20 30 20 49 52 20 30 34 37 0d	e-Key
45	* 0 IR 048\r	2a 20 30 20 49 52 20 30 34 38 0d	Color RGB
46	* 0 IR 049\r	2a 20 30 20 49 52 20 30 34 39 0d	Language
47	* 0 IR 050\r	2a 20 30 20 49 52 20 30 35 30 0d	Source HDMI
48	* 0 IR 051\r	2a 20 30 20 49 52 20 30 35 31 0d	ECQ mode
49	* 0 IR 052\r	2a 20 30 20 49 52 20 30 35 32 0d	Query ECQ mode
50	* 0 Lamp ?\r	2a 20 30 20 4c 61 6d 70 20 3f 0d	Query the lamp QN/QFF
51	* 0 Lamp\r	2a 20 30 20 4c 61 6d 70 0d	Query the lamp hours
52	* 0 Src ?\r	2a 20 30 20 53 72 63 20 3f 0d	Query source input type
53	* 0 IR 056\r	2a 20 30 20 49 52 20 30 35 36 0d	3D Qn
54	* 0 IR 057\r	2a 20 30 20 49 52 20 30 35 37 0d	3D Qff
55	* 0 IR 058\r	2a 20 30 20 49 52 20 30 35 38 0d	2D to 3D Qn
56	* 0 IR 059\r	2a 20 30 20 49 52 20 30 35 39 0d	2D to 3D Qff
57	* 0 IR 060\r	2a 20 30 20 49 52 20 30 36 30 0d	3D format - Auto
58	* 0 IR 061\r	2a 20 30 20 49 52 20 30 36 31 0d	3D format - Frame Packing
59	* 0 IR 062\r	2a 20 30 20 49 52 20 30 36 32 0d	3D format - Side by Side Half,
60	* 0 IR 063\r	2a 20 30 20 49 52 20 30 36 33 0d	3D format - Side by side Full,
61	* 0 IR 064\r	2a 20 30 20 49 52 20 30 36 34 0d	3D format - Top and Bottom
62	* 0 IR 065\r	2a 20 30 20 49 52 20 30 36 35 0d	3D L/R Invert

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General command type (Projector 'transmits' commands)			
NO	**Code (character)**	**Code (HEX)**	**Function feature**
1	Model XXXXXXXX\r	4d 6f 64 65 6c 20 58 58 58 58 58 58 58 58 0d	Return the Model name
2	Res XXXXX\r	52 65 73 20 58 58 58 58 58 0d	Return the Native display resolution
3	Name XXXXXXXX\r	4e 61 6d 65 20 58 58 58 58 58 58 58 58 0d	Return the company name

Lamp command type (Projector 'receives' commands)			
NO	**Code (character)**	**Code (HEX)**	**Function feature**
1	* 0 Lamp ?\r	2a 20 30 20 4c 61 6d 70 20 3f 0d	Query the lamp ON/OFF
2	* 0 Lamp\r	2a 20 30 20 4c 61 6d 70 0d	Query the lamp hours

Lamp command type (Projector 'transmits' commands)			
NO	**Code (character)**	**Code (HEX)**	**Function feature**
1	Lamp 0\r	4c 61 6d 70 20 30 0d	Return Lamp OFF status
2	Lamp 1\r	4c 61 6d 70 20 31 0d	Return Lamp ON status
3	XXXX\r	58 58 58 58 0d	Return Lamp hours

Source command type (Projector 'receives' commands)			
NO	**Code (character)**	**Code (HEX)**	**Function feature**
1	* 0 Src ?\r	2a 20 30 20 53 72 63 20 3f 0d	Query source input type

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